

SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Our 24th Year
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Mush! Hams Work Hard Again at the Beargrease

By Loren Kuhnly, KA0TMW
5119 Samuelson Road, Duluth, MN 55811-9705

Another year of helping with the Beargrease Sled Dog Race is done, with the next one now only about 45 weeks away. This year was another great one, with 43 hams helping. Doing communications in the cold and snow, day and night is not for everyone but should be a challenge for many more. Imagine setting up your station at 10:30 at night, wind Northwest at 20 mph, temperature ten degrees below zero, and there are 15 pieces of traffic are waiting to be passed. Sounds like either the Itidarod or the Beargrease.

This year, six hams came up from the Twin Cities, one of whom is an Emergency Coordinator, to learn how a long-duration net is run. They all are planning to come up again next year to help, because it was so much fun. A few new hams from the area got their feet wet at Net Control and did a super job.

Eleven different hams kept Net Control going for 124 hours, and once again kept the title of the third longest yearly run Net Control operation in the lower 48 states. Because of Net Control becoming more complex with Magnet Board, Computers, 3 radios, fax machine, 3 phone lines and paper work; a total of 262 hours of time were put by the operators at Net Control. The total hours of ham help are still being added up, and it looks as though it will top any of our past 7 years of 1,218 HOURS. For the past 7 years we have averaged about 40 hams putting in about 1,000 hours.

This year, B.A.R.C. (Beargrease Amateur Radio Coalition) got more media coverage for the *entire* ham community, with thanks in the Duluth Paper, and interviews about ham radio on three radio stations throughout Minnesota and Wisconsin. Many newsletters printed stories about the Beargrease and ham involvement, including the *Badger State Smoke Signals*.

Traffic count was higher this year than in any other year because of the total of 84 dog teams racing. The total traffic count was about 1,450 pieces for all



Rick Johnson, KB0BDN (left), assists a Beargrease Race official. The race was covered by the ESPN cable TV network.
- Photo by Jayne Johnson/N0UYQ

three races. A big change this year was a snow storm in the middle of the race. And, this year, a first occurred: *no* musher got hurt or lost. From checkpoints to road crossings everyone did a great job, no matter how hard it was snowing

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New Senate Bill Protects Amateurs

A telecommunications bill to free up government spectrum for commercial use, introduced into the new U.S. Congress, contains important protections for radio amateurs. The bill, S. 335, is a revised version of S. 218, which was not acted upon in the last Congress.

During the last, 102nd, Congress, the ARRL

suggested six possible amendments to S. 218 to mitigate the effect of releasing for private use government frequencies, some of which radio amateurs occupy on a shared, secondary, non-interference basis. Five of these six proposed amendments were incorporated into S. 335.

Senator Daniel Inouye (D-HI) introduced S.

335, "The Emerging Telecommunications Technologies Act of 1993," on February 4, saying: "Senator Stevens" (co-sponsor from Alaska) "and I have incorporated some changes to accommodate concerns of the amateur radio industry. I am happy to include these changes in order to protect the rights of amateur radio users to their spectrum."

The changes made as a result of the ARRL initiative are as follows:

1. The bill makes a "finding" that "a reassignment of federal government frequencies can be accomplished without adverse impact on Amateur Radio licensees that currently share allocations with

Please turn to page 9

1993 Wisconsin QSO Party

Sponsored by the West Allis Radio Amateur Club
P.O. Box 1072 • Milwaukee, WI 53201

1800Z March 14 until 0100Z March 15, 1993

(12 noon until 7 p.m., March 14, 1993)

All Stations Eligible and Welcome

Rules and an entry form were published in the February issue of *Badger State Smoke Signals*. Forms are also available from the West Allis Radio Amateur Club. If you request a form from the club, please enclose a #10 self-addressed, stamped envelope.

NOTE: At least one major Amateur Radio publication listed the date that logs are due after the contest incorrectly. The due date for log submissions is MARCH 31, 1993.

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Edited by Kenneth A. Ebnetter, K9EN • 822 Wauona Trail • Portage, WI 53901

Swapfests and Other Social Events

SATURDAY, MARCH 20, 1993. Michigan Cross-roads Hamfest, Marshall, MI. Contact: SMARS, PO Box 934, Battle Creek, MI 49016.

SUNDAY, MARCH 21, 1993. Tri-County ARC Hamfest at Jefferson County Fairgrounds, Highway 18 West, Jefferson, WI. Contact: TCARC, W9SMQB, 213 Frederick, Fort Atkinson, WI 53518.

SUNDAY, FEBRUARY 21ST. Hamfest at QCCA Expo Center Rock Island, IL advance tickets \$3.00, \$4.00 at the door, contact , K9UQI for tables and tickets. Exam contact is N9OK with usual id requirements, walk-ins ok send sase for flyer to K9UQI, K. Williams, 4245 10th Street, E. Moline, IL 61244 phone 309 796-0718 after 4:00 p.m.

SATURDAY, MARCH 27, 1993. Michigan City Hamfest, Rogers High School, Michigan City, IN. Contact: Jack Lemley, N6SYJ, 384 Hawthorne, LaPorte, IN 46350.

SUNDAY, MARCH 28, 1993. LAMARSFEST, Lake County Fairgrounds, Grayslake, IL. Contact: Lamarsfest '93, Box 437, Lake Bluff, IL 60044.

SATURDAY, APRIL 3, 1993. The Rochester ARC will sponsor the 16th annual Rochester Area Hamfest at the John Adams Junior High School, 1525 31st St. N.W., Rochester, MN. Contact RARC, ATIN N9VB, 6982 Indigo Court N.W. Rochester, MN 55901. (507) 280-7751. (Enter 1 # and follow instructions.)

SUNDAY, APRIL 4, 1993. Madison, WI Swapfest, sponsored by MARA. Contact MARA, PO Box 8890-8890. Madison, WI 53708-8890. (608) 249-7579. Watch for flyer, and see ad back page.

SUNDAY, APRIL 18, 1993. Rockford Hamfest and Computer Show. Held at the Rockford Metro Center. Contact RARA, PO Box 6931, Rockford, IL

61125. ((815) 399-6995. (Also see ad elsewhere in this issue.)

SATURDAY, MAY, 1, 1993. Cedarburg, WI Swapfest. Held at the Circle B Recreation Center, intersection of Highway 60 and County Highway I. Amateur Radio Exams given by Badger Examiners. (See TestPoint for further information.) For more swapfest information, contact O.R.C. Swapfest Committee, 11448 N. Laguna Dr., Mequon, WI 53092. (Watch upcoming BSSS for ad with full information.)

SUNDAY, MAY 2, 1993. DeKalb Hamfest, Sandwich, IL. Contact Howard, WA9TXW, PO Box 264 Sycamore, IL 60178.

SATURDAY, MAY 8, 1993. Lakeshore Hamfest, Manitowoc County Expo. Contact: ManCoRad Radio Club, P.O. Box 204, Manitowoc, WI. Call: Ron, WS9X, (414) 793-4733 (nights) or Red, N9GHE, (414) 684-9097.

FRIDAY, SATURDAY, SUNDAY, MAY 20-22, 1993. Big Boys Toy Show, Racine Hamfest, Racine, WI. Contact Racine Megacycle Club - WB9USI, PO Box 3, Racine, WI 53401.

SUNDAY, JUNE 13, 1993. CWRA Swapfest, University Center, Stevens Point, WI. Contact: Art Wysocki, N9BCA, 3356 April Lane, Stevens Point, WI 54481. (715) 344-2984.

SATURDAY, JULY 10, 1993. South Milwaukee ARC Swapfest, Oak Creek, WI. Contact SMARC, P.O. Box 102, South Milwaukee, WI. (414) 762-3235 Ext. 58.

SATURDAY, JULY 24, 1993. Eau Claire ARC Swapfest, Chippewa Falls Fairgrounds. Contact Lis Searing, N9EQR, 1129 McKinley Road, Eau Claire WI 54701. (715) 834-1303.

SUNDAY, OCTOBER 10, 1993. Kettle Moraine Radio Amateurs at the Waukesha County Exposition Center, Waukesha, WI. Contact: KMRA Swapfest, PO Box 411 Waukesha, WI 53187-0411.

See also the back page and flyers ads for addition information about many of the above events.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings



Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the January 1993 meetings column for the latest complete listing. The following are additions or changes since that listing.

QOWA - WISCONSIN CHAPTER #55

Contact Erwin Froelich, W9RZW, Treasurer, Rte 1 Box 177D, Pine River WI 54965. For information about meeting dates or joining QOWA Chapter #55. The Wisconsin Chapter holds Spring and Fall dinner meetings.

GMDX MEETINGS...WELCOME!

Greetings to all Milwaukee area DXers! The Greater Milwaukee DX Association meets on the 4th Monday of the month from September through June. We use a variety of sites throughout Milwaukee and surrounding counties. Membership in GMDX is open to anyone who SERIOUSLY pursues DXing. We have a diverse group, from guys at the top of the honor roll to newcomers who are working up to their first 100. Some of our members are also among the top DX contesters in the country. We also have ARRL- approved DXCC field checkers available.

The meeting agenda consists of a generally short business meeting, followed by "networking" with your fellow DXers, where any topic of interest is fair game, including antennas, construction, propagation, DXpeditions, contesting, even non-ham interests of the day.

For information on our next meeting, contact any GMDX member, including Newsletter editor Dan Reese (N9XX @ NB9C - anytime, or call 414-529- 9806 - before 9PM please). Officers include Charlie, NK9I @ KS9K and Paul, KI9Q @ KS9K. We'll clue you into the time and location of our next meeting so you can join us."

THE BARGAIN MODE

SSB

SELL SWAP BUY

OUR WANT ADS GET RESULTS

FOR SALE: HYGAIN 40 meter 2 element beam. Used only 3 times. Kettle Moraine Radio Amateurs. Contact: Wayne Fraker (414) 542-0674.

WANTED: SB-200 in nice condition. DX-20, 25, 30, or 35, any one in good condition. Drake Transceivers. Millard Christianson, WU9L, 424 W. Pine, Sturgeon Bay, WI 54235.

FOR SALE: Colorful United States Stamps. 100 all different. \$1.00 postpaid. Richard Regent, 9GDF, 5003 South 26th St., Milwaukee, WI 53221.

Badger State Smoke Signals

Amateur Radio Education and Information

CHAIRMAN: Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. Telephone (608) 742-3560.

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Subscriptions

1 year	(12 issues)	\$9.75
2 years	(24 issues)	\$18.00
3 years	(36 issues)	\$26.00

Special club package reduced rates are available. For information, contact Ken Ebnetter, K9EN.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1.

The only exception is for participating clubs. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For

example, if a club meets on the 4th of the month, the material should be sent no later than the 9th of that month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections should be sent to Ken Ebnetter.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebnetter.

Swapfest information should be sent to Ken Ebnetter. Swapfest ads should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

Conditions for Reprinting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*. This credit is mandatory, and no material may be printed unless it is given. This newspaper is produced by volunteer Radio Amateurs, and is non-profit. This newspaper is mailed from Portage, WI 53901.

Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

The Test Point



Amateur Radio Examination Locations and Schedules in the Wisconsin Area

The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

March 6, 1993	Racine, WI
March 6, 1993	Dubuque, IA
March 11, 1993	Apple Valley, MN
March 13, 1993	Madison, WI
March 13, 1993	Marshfield, WI
March 13, 1993	N Branch, MN
March 13, 1993	Oak Creek, WI (SWAT)
March 13, 1993	Oak Forest, IL
March 13, 1993	River Falls, WI
March 17, 1993	West Allis, WI (MRAC)
March 20, 1993	Milwaukee, WI (BE)
March 20, 1993	Appleton, WI
March 21, 1993	Jefferson, WI (Tri-County Swapfest)
March 27, 1993	Menomonie, WI
March 27, 1993	West Allis, WI (MRAC)
March 27, 1993	Tomahawk, WI
April 3, 1993	River Falls, WI
April 3, 1993	Racine, WI
April 10, 1993	Madison, WI
April 10, 1993	Oak Creek, WI (SWAT)
April 17, 1993	Eau Claire, WI
April 17, 1993	Milwaukee, WI (BE)
April 21, 1993	West Allis, WI (MRAC)
April 24, 1993	West Allis, WI (MRAC)
April 24, 1993	Tomahawk, WI
May 1, 1993	Medford, WI
May 1, 1993	Racine, WI
May 1, 1993	Ozaukee, WI (BE) (Hamfest)
May 8, 1993	Marshfield, WI
May 8, 1993	Manitowoc, WI (Hamfest)
May 8, 1993	Madison, WI
May 8, 1993	Oak Creek, WI (SWAT)
May 19, 1993	West Allis, WI (MRAC)
May 22, 1993	Racine, WI (Big Boy Toy Show)
May 29, 1993	West Allis, WI (MRAC)
May 29, 1993	Tomahawk, WI
June 5, 1993	Racine, WI
June 12, 1993	Appleton, WI
June 12, 1993	Dubuque, IA
June 12, 1993	Madison, WI
June 12, 1993	Oak Creek, WI (SWAT)
June 12, 1993	River Falls, WI
June 12, 1993	West Allis, WI (MRAC)
June 13, 1993	Stevens Point, WI (Hamfest)
June 26, 1993	West Allis, WI (MRAC)
June 26, 1993	Tomahawk, WI
July 10, 1993	Madison, WI
July 10, 1993	Marshfield, WI
July 10, 1993	Oak Creek, WI (SWAT)
July 31, 1993	West Allis, WI (MRAC)
July 31, 1993	Tomahawk, WI
August 9, 1993	Appleton
August 14, 1993	Madison, WI
August 14, 1994	River Falls, WI
August 14, 1993	Oak Creek, WI (SWAT)
August 18, 1993	West Allis, WI (MRAC)
August 21, 1993	Dubuque, IA
August 28, 1993	West Allis, WI (MRAC)
August 28, 1993	Tomahawk, WI
September 4, 1993	Racine, WI
September 11, 1993	Madison, WI
September 11, 1993	Marshfield, WI
September 11, 1993	Oak Creek, WI (SWAT)
September 15, 1993	West Allis, WI (MRAC)
September 25, 1993	West Allis, WI (MRAC)
September 25, 1993	Tomahawk, WI
October 2, 1993	Racine, WI
October 9, 1993	Oak Creek, WI (SWAT)
October 9, 1993	Madison, WI
October 9, 1993	River Falls, WI
October 20, 1993	West Allis, WI (MRAC)
October 30, 1993	West Allis, WI (MRAC)
October 30, 1993	Tomahawk, WI
November 6, 1993	Racine, WI
November 6, 1993	Menomonie, WI
November 7, 1993	Kaukauna, WI (Hamfest)
November 13, 1993	Madison, WI

November 13, 1993 Marshfield, WI
November 13, 1993 Oak Creek, WI (SWAT)
November 17, 1993 Oak Creek, WI (MRAC)
November 20, 1993 Dubuque, IA
November 27, 1993 West Allis, WI (MRAC)
December 1, 1993 Racine, WI
December 4, 1993 Stevens Point, WI
December 11, 1993 Madison, WI
December 11, 1993 River Falls, WI
December 11, 1993 Oak Creek, WI (SWAT)
December 15, 1993 Oak Creek, WI (MRAC)

Monthly, 1st Sat. Racine, WI
(except January, July & August)
Monthly, 2nd Sat. Madison, WI
Monthly, 2nd Sat. Milwaukee, WI (MRAC)
Monthly, 3rd Wed. Milwaukee, WI (MRAC)
Monthly, 3rd Sat. Loves Park, IL
Monthly, Last Sat. Milwaukee, WI (MRAC)
(except December)
Monthly, Last Sat. Tomahawk, WI
(January thru October only)

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

GENERAL RULES

FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 29¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.60 payable to "ARRL/VEC".

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC)

THIRD WEDNESDAY DATES: At 6:30 p.m. at Methodist Manor, 3023 S 84th St., West Allis, WI.

LAST SATURDAY DATES (except December): At 7500 West State St., West Allis, WI.

For Additional Information Contact; Jack Krause, (414) 774-6999 or call (414) 466-HAMS (Answering Machine) or write MRAC, 1737 N. 116th St., Wauwatosa, WI 53226.

Bring along your ORIGINAL license and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required are a pen and \$5.00 (except Novice) for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, or Les Peterson, W9YCV at the addresses shown above.

BADGER EXAMINERS (BE) - MILWAUKEE

Unless otherwise noted, examinations are administered beginning at 1:00 p.m. to 3:30 p.m. at St. Nicholas Church basement, 5345 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Walk-ins are welcome. CW waiver forms are available. Please send a request with an SASE prior to taking an exam, so it is ready when attending the session. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno,

WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223.
Telephone (414) 355-0237.

OAK CREEK, WI (MRAC/VEC)
Tri County Swapfest, March 21, 1993
JEFFERSON, WI (ARRL/VEC)

SECOND SATURDAY DATES: 1:00 p.m. at Wauwatosa Savings and Loan Branch, 6560 S. 27th St., Oak Creek, WI. (MRAC/VEC fee \$5.00)

Tri-County Swapfest at Jefferson, WI. (ARRL/VEC fee 5.60)

Contact Norman McNew, KB9QL, (414) 764-5998 or Joe Mettry, AA9DO, (414) 761-9219

MADISON, WI

VE exams are held in Madison every second Saturday morning of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original licence and a copy of your licence. For exams beyond the novice tests, bring a check for \$5.60, made out to the ARRL/VEC. If the special 610 form with the medical exemption is required, contact me beforehand to obtain one. No appointments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark NZ9B

EAU CLAIRE, WI

Held 9:00 a.m. to 12:00 noon at St. Olat's School on the North Lane in Eau Claire, WI., near the airport. Contact Carl Searing, W9NW. (715) 834-1303.

MARSHFIELD, WISCONSIN

Sponsored by the Marshfield Area ARS. Second Saturday every other month, at St. Joseph Hospital, School of Nursing entrance. Room 124. St. Joseph Ave., Marshfield, WI. Walk-ins Welcome. Contact Walter Friant, WBOKIN, 2310 Wal-lonnie Dr., Marshfield, WI 54449. (715) 387-3870

RACINE, WISCONSIN - ARRL/VEC

SATURDAY, MAY 22, 1993

Monthly - first Saturday, except January, July, and August.

Monthly exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted.

May 22 exams given during the "Big Boy Toy Show", Racine Festival. Exams will be held at the United Methodist Church, 745 Main St., Racine, WI, which is only a short distance from the show. Walk-ins are permitted.

Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

MEDFORD, WI (ARRL/VEC)

The Taylor County Area ARC with help from the Tomahawk VE team, will sponsor license exams on Saturday, May 1, 1993. Registration will start at 8:30 a.m. Exams will be held in the Multi-Purpose building located at the Taylor County Fairgrounds, in Medford, WI. All classes of exams will be given. From intersection of highways 13 and 64, go east on 64 and enter second driveway on the north side of the road. Watch for the sign at the driveway entrance. The multi-purpose building is yellow. Walk-ins accepted but advance reservation appreciated. Contact: Greg Garner, WA9W, (715) 453-7096 or Mike, N9GHZ, (715) 223-3996. Leave your name, phone no. and exam element(s) you want.

(continued on page 15)

Wisconsin Nets Association Ltd.

Rob Hummel, WA9ZTY, Secretary • 202 Midvale Drive • Marshall, WI 53559

Section Manager's Notes



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

April 4th, Madison Swapfest & Computer Fair, Dane County Expo Center Forum Building.

Exams: April 3 Ashland, Racine and River Falls; April 10 Madison, Marshfield and Milwaukee; April 17 Eau Claire and Milwaukee; April 21 Milwaukee; April 24 Tomahawk.

Congratulations to K9DHR of Kaukauna on becoming an ORS and OBS.

Racine Megacycle Club will have a foxhunt April 2nd.

W/K Club (South Milwaukee area) has April 13th meeting at home of N9NLE, info from Pres. WB9TNF.

Watertown ARC now has 39 members.

Ozaukee ARES meets on 146.33 MHz Thursdays at 8 p.m., and Club has library of books that club owns with librarian WA9UVK.

Madison area ARES net is on the 146.94 MHz repeater, Wednesdays at 8:30 p.m.

Green Bay area 10-meter Net meets on 28.4 MHz, Sundays at 9 p.m., and Club has open autopatch on 147.36.

Wisconsin Novice Net meets on 3.723 MHz daily at 6 p.m.

Green Bay Mike and Key Club continues to help with Brown County Department of Emergency Government tests of 34 area sirens.

Wisconsin Nets

Net	WNA	Freq.	UTC	CST	Mgr.
BWN	Yes	3984	1200	0600	W9AYK
BEN	Yes	3985	1800	1200	KE9VU
WSBN	Yes	3985	2330	1730	K9UTQ
WNN	Yes	3723	0000	1800	KA9FVX
WSSN	Yes	3645	0030	1830	N9BDL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9NGP
NWTN	Yes	34/94	2330	1830	NS9Q
(Rhinelander area)					
RCRA	No	01/61	0030	1830	KA9OMC
(Mondays CST) (Menomonie Area)					
Gr. Bay	No	72/12	0245	2045	WB9NRK
(Green Bay Area)					
ARES	No	4.65/5.25	0200	2000	
(South East/South Central Wisconsin)					
RACES	No	3993.5	1400	0800	WA9OAY
(LSB Sunday)					

WA9JOB says Wisconsin was the 6th state to join the Mid-America Coordinating Council. Nels is also gets name credits as audio engineer for programs like Tracks Ahead and Dollar Signs on educational TV in Milwaukee.

Fox Cities ARC member KA9JAC has North American QSL info on CD ROM on his BBS on 144.97 for packet lovers.

The FCARC VEC has given 471 exams with 43 sessions since 1985.

Sorry to report Silent Keys W9QYH and W9GPX.

Four Lakes ARC members NO9M, K9IMM and NS9L operated 160 and 80 meter CW from Puerto Rico during the ARRL DX contest.

Thought of the month: *Given a bad start, trouble will increase at an exponential rate.* □

League Petitions FCC for Automatic HF Digital Communications

The ARRL, acting on recommendations of its volunteer Digital Committee, has petitioned the Federal Communications Commission for changes in the amateur rules regarding digital communications below 30 MHz.

On February 1 the League filed a petition for rule making with the FCC to permit, under certain conditions, automatic control of RTTY and data communications in certain portions of the amateur bands below 30 MHz. Namely, the League seeks to permit automatically controlled data communications, including third-party messages, in specific subbands.

The FCC has granted a final extension of the ARRL's special temporary authority for certain amateurs to use automatic control of digital communications below 30 MHz. The STA has been in effect since 1987 to allow a limited number of amateurs to explore future systems and advance amateur digital techniques. Since the notice and comment phases of rule making can take a significant amount of time, the ARRL requested this final extension of the STA to carry through until the consideration of new rules has been completed by the FCC. The extended STA would have expired February 3, 1993.

In its (petition for Rule Making) filing of more than 30 pages the League recounted the history of amateur digital communications, saying that despite problems with implementing automatic digital forwarding in the HF bands there are "good and sufficient reasons why automatically controlled data communications at HF should be authorized."

"Development of new software and hardware to refine the technology and further new types of data communications and data networks requires that at least some amateur stations in a network be permitted to operate under automatic control in the HF amateur bands," the League said.

Its goal in submitting the petition, the League said, is "to encourage experimentation and the development and refinement of (RTTY and data communications); to adapt complex digital technologies to practical use; and to permit the implementation in the Amateur Radio service of more efficient emergency and public service communications technologies."

The proposed subbands for automatic digital control are as follows:

28.120-28.189 MHz	24.925-24.930 MHz
21.090-21.100 MHz	18.105-18.110 MHz
14.095-14.0995 MHz	14.1005-14.112 MHz
10.140-10.150 MHz	7.100-7.105 MHz
3.620-3.635	

— ARRL Bulletin ARLB010, 11, and 13
February 2 and 3, 1993

Minutes of the December WNA meeting are included in the Clubs and Organizations section of this issue.

ARRL and Traffic News and Information

By Rich Regent, K9GDF
5003 South 26th Street, Milwaukee, WI 53221

Field Appointee QSL Cards

"Official Family"-style ARRL QSL cards are now available to Field Organization appointees. The cards are printed on heavy stock paper, with the back-ground color matching the appointee's badge color. Cards are customized to the individual appointee's specifications. For ordering information, contact Rick Palm, K1CE, in the Field Services Department at ARRL Headquarters (225 Main Street, Newington, CT 06111).

Not all appointees may be getting the new QSLs since they cost \$185 per thousand cards. QCWA cards are \$80 per thousand cards, 43% as much. So I wrote to K1CE and asked if the price is right.

Rick replies, "There's no question about it, the QSL cards are expensive. They are customized, full-bleed cards, and most QSL card printers do not have the equipment to produce them. However, K2MK QSLs makes a handsome card patterned after the League's design for less. Printed by a color laser printer, they are actually of better quality and are much more attractive than the League's own."

Watch for more about this in the next issue of *Field Forum*, or contact K2MK QSLs, 551 Norwood Road, Mt Laurel, NJ 08054, who has similar cards for \$123.95 per thousand plus \$4 shipping.

Free ARRL Brochures and Handouts

The Field Services Department at ARRL Headquarters maintains a large array of operating aids, brochures, manuals, reporting forms, certificates, memoranda and various other supplies available upon request to help clubs, appointees and individual hams accomplish their objectives at the local level. These supplies are furnished at no cost to clubs and League volunteers. Quantities may be limited. To order, contact the Field Service Department, ARRL Headquarters, 225 Main Street, Newington, CT 06111.

A complete list was in the January issue of *Field Forum* newsletter. You can get a copy of the list by sending me a self-address envelope. If you would like to know more about becoming an ARRL appointee just let me know, I'll send you the information and an application blank. Then you will receive *Field Forum* free, too.

Please turn to page 9

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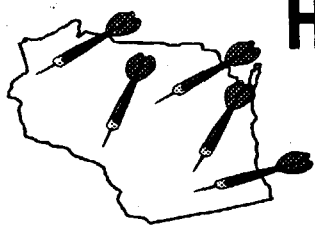
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HERE and THERE

Commission Fines Amateur \$10,500 for Interference

The FCC's Kingsville, Texas office has issued a Notice of Apparent Liability to an amateur for \$10,500.

Richard L. Whiten, WB2OTK, of Taylors, South Carolina, was cited for "willful and malicious interfering transmissions" monitored by the FCC on September 26, 1992, on 14314.7 kHz.

Whiten, a General Class licensee, was issued the NAL two days later. In his reply to the FCC he did not, according to the Commission, dispute making the transmissions, but he "denied that his signals constituted willful, malicious interference, because, he says in his letter, if he truly wanted to willfully and maliciously interfere he could have done so to such an extent that communications between other Amateur Radio operators would have been impossible; that his comments were not disruptive; that his statements were innocuous, that he was recognized and spoken to by the other amateur operators, and that he was the victim of entrapment by the other operators."

The FCC did not accept this argument, and noted that Whiten already had received two previous NALs, on January 28, 1991, and July 12, 1991, for the same rules violation.

The FCC's "base amount" fine for willful interference is \$7,000; in this case, the fine was raised 50 percent "in view of Mr. Whiten's repeated violations," the FCC said.

- The ARRL Letter, 1/27/93

FCC Issues Notice of Apparent Liability to Texas Amateur for "Willful Interference"

The FCC has issued a Notice of Apparent Liability for 2,000 to William A. Moskowitz, KA3HSZ, of Plano, Texas.

In the NAL, dated January 14, 1993, the FCC said its Vero Beach, Florida office monitored Moskowitz on November 26, 1992, and during a 17-minute period observed him changing operating frequency twice, in the vicinity of 14.313 MHz, "in order to interfere with on-going communications."

"The violation was willful," the FCC said. The FCC said "we are treating this as a minor violation," and that because Moskowitz is an individual, because of the nature of the violation, and because it is a first offense, the Commission set the fine at \$2,000. The FCC's base forfeiture for malicious interference is \$7,000.

Moskowitz has the usual 30 days to pay the fine or to appeal it.

- ARRL Bulletin ARLB012, 2/3/93

H.H. Beverage, ex-W2BML, SK

Harold H. Beverage, ex-W2BML, died January 27 in Stony Brook, New York. He was 99 years old. Although not an active ham since the 1920s, his name is immortalized as the inventor of the Beverage receiving antenna (or, as he originally called it, the "Wave Antenna"). It was developed in 1917 to enhance communications between the US and Europe during the First World War, and was described in *QST* in November, 1922.

Beverage said in 1980 that he considered his two greatest inventions (he received more than 40 patents) the Wave Antenna and diversity reception. A biography of Beverage, *Genius at Riverhead*, was written by Alberta I. Wallen and published by the North Haven (Maine) Historical Society in 1988.

Beverage was recognized with an obituary in the February 2 *New York Times*. The American Institute of Electrical Engineers awarded Beverage its Lamme Gold Medal in 1957, the *Times* said, and cited him "for his pioneering and outstanding achievements in the conception and application of principles basic to progress in national and worldwide radio communications."

- ARRL Bulletin ARLX002, 2/2/93

New Six-Meter Chicago Repeater

This spring, the Chicago area will have a wide-area six-meter repeater. This is a project of Mark, WB9QZB, and Bob, WA2YDV.

The repeater is tentatively scheduled to be located in Palatine, Illinois, at 120 feet above the ground. The repeater is a commercial unit, rated at 100 watts. The duplexer will be a new one from order from Wacom.

The repeater is coordinated for the frequency pair 52.05/53.05 MHz, and should have excellent ground-wave coverage.

As you may have seen, Azden is now marketing a 5-watt 6M HT and a 50-watt 6M mobile, so getting on 6M FM will be easy and not too expensive. Of course, you can also try converting low-band commercial gear.

We are looking forward to putting this system to good use and experimenting with what I am told is the incredible ground-wave potential of six meters.

If you have any questions about this project, please drop Bob or myself a note on packet @ N9HSI.IL.USA.NA, or call me at (312) 275-6867.

- Mark Thompson, WB9QZB

National Contest Journal to See Change of Editors

A change of editors is in the works for the ARRL's *National Contest Journal*. Stepping down effective with the July/August issue after four years

Please turn to page 6

Scholarship Availability Announced by Foundation for Amateur Radio

Two Wisconsin Clubs Offer Total
of \$5,000 in Scholarships

The Foundation for Amateur Radio, Inc., a non-profit organization with headquarters in Washington, D.C., plans to administer forty-seven scholarships for the academic year 1993-1994 to assist licensed Radio Amateurs. The Foundation, composed of fifty local Washington-area Amateur Radio clubs, fully funds five of these scholarships with the income from grants and its annual Hamfest. The remaining 42 are administered by the Foundation without cost to the various donors.

Licensed radio amateurs may compete for these awards if they plan to pursue a full-time course of studies beyond high school and are enrolled or have been accepted for enrollment at an accredited university, college or technical school. The awards range from \$500 to \$2000, with preference given in some cases to residents of specified geographical areas or the pursuit of certain study programs.

Clubs are encouraged to announce these opportunities at their meetings, on their nets, during training classes, and in their club newsletters.

The two Wisconsin clubs and their scholarships administered by FAR are:

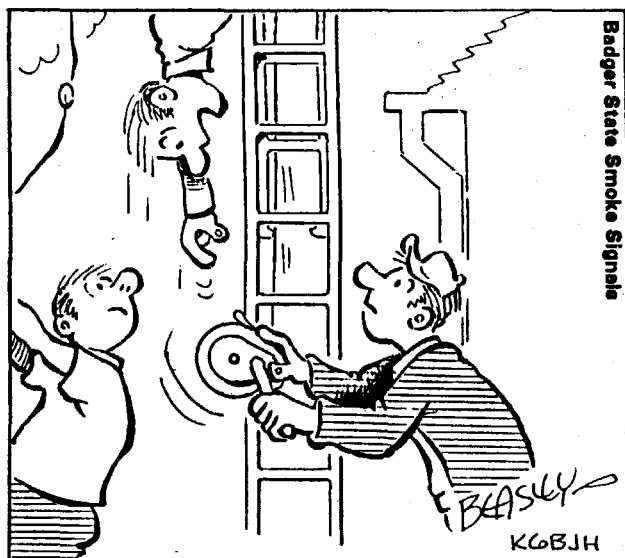
South Milwaukee Amateur Radio Club: SMARC offers four \$500 scholarships. The applicants must be licensed radio amateurs, pursuing an associate or baccalaureate degree in Electrical Engineering or Engineering Technology from an accredited college or university anywhere in the United States. These scholarships are open to applicants in Illinois, Indiana, and Wisconsin, with preference given to Wisconsin applicants.

West Allis Radio Amateur Club: The WARAC makes available three \$1000 scholarships. Applicants must be licensed radio amateurs and plan to attend a Wisconsin school with a minimum goal of an Associate degree. These awards are available to Wisconsin hams only.

Residents of the Wisconsin area may meet the requirements of some of the other scholarships. Additional information and an application form can be requested by letter or QSL card, postmarked prior to April 30, 1993, from FAR Scholarships, 6903 Rhode Island Avenue, College Park, MD 20740.

The Foundation for Amateur Radio, incorporated in the District of Columbia, is an exempt organization under Section 501(c)(3) of the Internal Revenue Code of 1954. It is devoted exclusively to promoting the interests of Amateur Radio and those scientific, literary and educational pursuits that advance the purpose of the Amateur Radio Service.

- Foundation for Amateur Radio news release



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9303

Wisconsin State Historical Society Honors Former Recording Studio Owner, Operator

Jim Kirchstein is Also Amateur Radio Operator



Cuca Records, of Sauk City, WI, was founded by Jim Kirchstein (W9EIE) in 1959, and ceased operations in the early 1970s. During that period, Cuca recorded and released music in a variety of styles, including polka, pop, rhythm and blues, folk, traditional jazz, and more. Most musicians recorded by Cuca were from Wisconsin or adjacent states. Cuca's recorded documents represent a concentrated view of midwestern, and particularly Wisconsin, musical performance in that period.

Cuca achieved notable commercial success early on. Their recording of "Mule Skinner Blues" by the Fendermen (released on the Soma label) rose to number 5 on the pop charts in 1960, and sold over a million copies. Cuca entered the *Billboard* Rhythm and Blues charts in 1963 with their recording of Birdlegs and Pauline's tune, "Spring." Other notables recorded by Cuca include bluesman Earl Hooker, polka artists Verne Meisner and Roger Bright, the pop group Corporation, country music great Pee Wee King, Madison jazz artist Doc DeHaven, and the Circus World Museum's steam calliope (and other exotic circus musical instruments) artist, Ethel Romelfanger (my mother), who made four 45-RPM steam calliope records. Your editor worked at WVLR and at the recording studio for several years in the 1960s. It was a period of good times with good people, and it was never, never dull. Most of the above was taken from the printed program for the reception. □



James E. Kirchstein, W9EIE (center), enjoys a conversation during a reception at the Mills Music Library of the Wisconsin State Historical Society in Madison. The reception honored Jim for his donation of master tapes to the music library from the recording studio he operated in Sauk City. The man at left is unidentified; at right is Susan Smith, a reporter for the *Wisconsin State Journal* in Madison.

- Photo by the Olde Goat

Here and There

Continued from page 5

is current editor Tom Taormina, K5RC, of Bellville, Texas. He will be replaced by Trey Garlough, WN4KKN, who lives in Santa Cruz, Calif.

Trey, who is 29, got his Novice license in 1974 at age 10. His parents were both amateurs, although inactive. Local hams took Trey under their wings, especially long-time DXer and contestator Tom Russell, N4KG, who loaned the young Trey a rig in time for the ARRL Novice Roundup. Trey still signs the same call today!

After getting a bachelors degree in computer science from the University of Texas at Austin, Trey worked at the UT-Austin Computation Center for nine years as a systems analyst. He then journeyed west to join the technical staff of TGV, Inc., a vendor of networking products for Digital's VAX and Alpha computers.

In 1987 Trey joined the *NCJ* as a contributing editor, managing the North American Sprint (CW) contest, among other jobs. Asked what his goals will be as editor of the *NCJ*, Trey said, "I hope to contribute to the continued success the *NCJ* has experienced under the stewardship of Tom Taormina, K5RC (paid subscriptions up 25 percent in the past four years - *ARRL Letter* ed.).

"I want to broaden the scope of the magazine to include more items also of interest to readers beyond the U.S. and Canada, and to encourage more foreign readers to share their perspectives with us."

Trey doesn't have a station of his own, but he gets around, operating from N5AU, W6QHS, K1AR, 9V1YC, ZP0Y, and HC8N in recent years. Typical of many contesters, he gets his radio in massive weekend fixes.

"Contests act as a focal point for on-the-air amateur activity, much like 'activity nights' on the UHF bands," he said. "As such, they permit me to enjoy the magic of wireless while minimizing the amount of time spent indoors."

Tom Taormina, meanwhile, will stay busy with his new business, Productivity Resources, as well as operating from home and helping in the construction of a new "super station" nearby.

- The ARRL Letter, 1/27/93

Hams Work Hard, Enjoy Communicating for Sled Dog Race

Continued from front page

or how cold it was.

Thanks go to hams for donating the use of their equipment at Net Control which was used heavily.

Not to be left out are the repeaters we used: KA0TMW 147.18 in Duluth, KF0QG 147.09 in Silver Bay, WB0HRO 147.36 in Grand Marais, and the backup repeater on 146.61 in Bayfield, WI.

If you didn't get to help this year, we'll be looking for more help next January! □

Out of State Exams

Information Provided
by the ARRL/VEC



All are ARRL/VEC unless otherwise shown.
Contact information from ARRL/VEC.

EASTERN IOWA
Cresco, 319-547-5329, Jim Murphy
Des Moines, 515-967-3890, Jim Snapp
Dubuque, 319-582-8563, Mike Jozefowicz

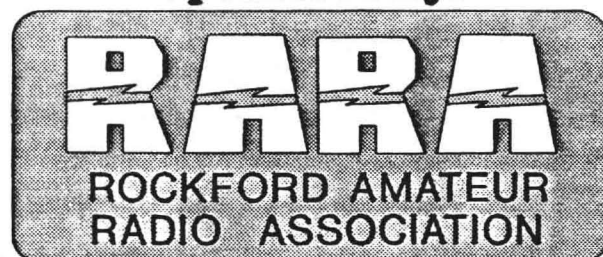
NORTHERN ILLINOIS
Dixon, 815-284-6380, Charles W Randall
Lincoln, 312-465-0981, Michael Leibovitz, WA9EVF
McHenry, 815-678-4276, Jack Hudson
Oak Forest, 708-448-9432, David Brasel
MINNESOTA
Apple Valley, 612-432-1640, Paul Ramey WGOG
Saint Paul, 612-888-6187, Jerry Jensen
St Paul, 612-222-7253, John Bellows
St Paul Park, 612-459-8678, David Harrell

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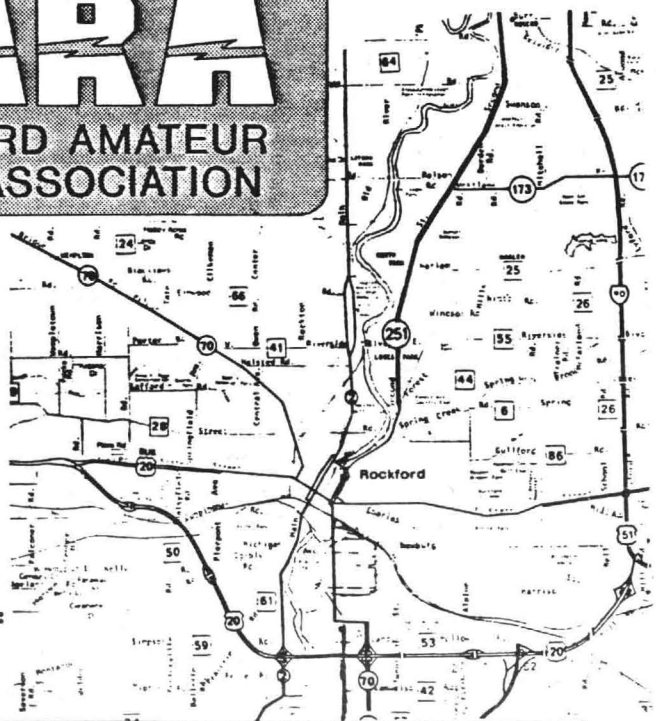
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Hams Help Bail Out Remote California Town

During the recent rains in California the tiny community of DeLuz, north of Fallbrook and midway between San Diego and Los Angeles, lost all power, telephones, water and all major roads were blocked by flooding. Only those with 4-wheel drive vehicles making their own roads as they went were able to get in and out.

Many individuals left their DeLuz homes in the morning to go to work and found it impossible to return in the evening. Many were concerned about the spouses and children they had left behind, and about their homes.

The *San Diego Union* called DeLuz "An island of chaos," where "every access road was demolished by flooding." DeLuz lost dozens of roads, and had no electricity or water for five days beginning January 15.

Fortunately, an amateur in DeLuz, George Shippey, N6YMH, activated his 2-meter station and began running emergency traffic via the Fallbrook repeater autopatch, the only 2-meter repeater that can be reached from DeLuz. This repeater belongs to 61-year-old Art Rideout, WA6IPD, a self-employed electrical engineer, who home-brewed the repeater after the 1989 Loma Prieta earthquake "because I was concerned that in the event of an emergency the community would not have communications. In this area we could not reliably access any 2-meter repeaters. I also provided an autopatch, all free for local amateurs," Rideout said.

Soon, Marv Druskoff, K2VIV, took control from the Fallbrook end and, because of the large volume of communications, established his base of operations at the Fallbrook Fire Station.

The *Union* reported that "With DeLuz cut off from the rest of the world, the sole communication has come from George Shippey's ham radio."

On the hour and sometimes on the half hour, communications were established with Shippey to confirm that loved ones were safe and that people on medication had adequate supplies. Where necessary, helicopters were directed in to provide necessary supplies. Numerous other amateurs were involved with the emergency communications, but Druskoff continuously manned his station for 72 hours, handling communications originating from the Fallbrook Fire Department and the sheriff's station.

"Since Sunday," said the *Union*, "Shippey has manned the radio from morning until night, providing a crucial link between stranded residents and the outside world."

"The 69-year-old retired salesman has braved washed-out roads and mudslides, checking on residents in need of drinking water, food or medicine. In many cases, he simply checked on folks whose friends and relatives have relayed messages via his radio," the paper said.

"Because of Shippey and another ham, Marv Druskoff, residents in need of insulin received some, thanks to a sheriff's helicopter," the *Union* said. "Another resident, requiring kidney dialysis treatment, was to be flown to a hospital because of information relayed between Shippey and Druskoff."

Fallbrook sheriff's Sgt. Derek Cook told the *Oceanside Blade-Citizen* that "Without [Shippey], we wouldn't know anything about anything."

North County Fire Protection District Capt. Milt Davies gave his view of radio amateurs to the *Blade Citizen*: "Once again, the hams come through and save the day. They're the ones to rely on when all the copper wires and cell phones go down."

Amateur Radio participation in the DeLuz rescue effort came to a close on Friday, January 22, according to Rideout, after telephone service was

finally established. Amateur Radio had been the main means of communications for eight days, most of that time the only means of communications for the remote community.

Amateurs established communications for RACES, the local fire department, the sheriff's office, Red Cross, the U.S. Forestry Service, and the Federal Emergency Management Agency (FEMA).

Helicopters were in short supply, according to Rideout. "Our next door neighbor, the Marine base at Camp Pendleton, usually responds to local emergencies, but they experienced major flooding and most helicopters had been under water," Rideout said.

Finally on Friday the Air National Guard came in with their helicopters and dropped water tanks, medical supplies, and food.

At the height of the rescue effort nine amateurs were helicoptered into DeLuz to provide communications. One amateur, Ellen Utschig, N6UWW, who is active in RACES, established a base station at a DeLuz Forestry Station that had been closed for the winter. She stayed for several days and operated her station 24 hours a day. She was finally evacuated with her radio equipment on Friday afternoon.

George Shippey summed up the amateurs' spirit:

"The only thing I want to do is to make sure people are OK," he told the *Union*.

- The ARRL Letter, 1/27/93

Menomonee Falls Career Day

The Menomonee Falls ARC will have at least four Amateur Radio demonstration stations set up at the Menomonee Falls North Middle School on Career Day, March 14, 1993, from 1 to 4 p.m.

Teenage students and their parents will be curious to see what electronics and communications has to offer for the future. Packet radio, two-meter stations, autopatch capabilities, a laptop computer and experts will be on site. There will be many questions asked of Section Emergency Coordinator WB9SMM as well as KC9CI, N9EAL and KB9OK. League pamphlets, information about amateur radio and club handouts will be available.

Club members will extend long wires out windows, set up equipment, operate on HF using the call K9RHH and hope to make hundreds of contacts in the Wisconsin QSO Party. Give them a call if you can, you may be influencing a young mind!

- Richard Regent, K9GDF

Wisconsin QSO Party Participants

BSSS would like to publish your photo(s) with the QSO Party results in our June issue! Pix of you at your home station, multi-county mobiles, big scorers, "just in it for the fun" entries are all welcome. Please identify everyone with full name, call sign, and any other relevant info. Please send them to the BSSS editor.

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DOS Tips

By Ronald W. Hooker, K9WTF
S68 W22700 National Avenue
Big Bend, WI 53103

This article will contain some DOS tips, and some of them will be commands that are specific to DOS 5.0. This latest version of DOS contains many improvements and new features.

I have been asked often, and heard the question asked on a repeater, "How do I format a 720K Diskette in a 1.44 meg floppy drive?" The earlier versions of DOS required more than one switch to format a floppy at 720K as defined. The command, for the earlier versions, was:

FORMAT A:/N:9/T:80

This assumes a Diskette in drive "A" is being formatted and that drive "A" accommodates the 3 1/2" floppy. The switch to format a 360K Diskette (5 1/4") in a 1.2 meg floppy drive is: /4. These switches are different and thus not easy to remember them. DOS 5.0 still has these switches available. However, it has added a new switch that makes it easier to remember and use. The switch added is: /F:(size), where size is the allowable floppy Diskette sizes. The actual command then for a 720K size is:

FORMAT A: /F:720

The four common sizes you probably will encounter are: 360K, 720K, 1.2M and 1.44M. It is the DOS 5.0 preferred switch to use for formatting a disk. And it is the one I use in all my format commands of floppy Diskettes.

DOSKEY is a new command that was added in DOS 5.0. DOSKEY is a command that recalls DOS commands, edits command lines and creates macros. DOSKEY is a RAM resident program, or a Terminate and Stay Resident (TSR) program. I had been using a TSR program for many years that provided this functionality and liked what it provided. The program I was using had a conflict with Windows 3.1 after I did that upgrade. So now I am using the DOSKEY program from DOS. Once this program is started, the Arrow keys allow you to go forward and backwards through the DOS commands you have used. The Page Up & Down keys will take you to the beginning command, or the last command. If you have entered a command incorrectly, you can recall that command. Then, using the Arrow keys to position the cursor, you can:

type over text, use the Insert mode to add text, or the Delete mode to delete part of the command. I have not used the macro part of this command so will not attempt to define it here. My suggestion is that you add the DOSKEY command to your AUTOEXEC.BAT file so that this TSR program will be executed at boot-up and available for use.

Some older versions of software always expect the installing or setup to be done from floppy drive "A" onto the hard drive (in their install or setup programs.) Some of my software is on 5 1/4 inch Diskettes, and I have switched my drive "A" to the 3 1/2 inch drive. Recently I needed to add a printer driver. The software setup program expected the floppy to be in drive "A". Mine was in drive "B". You can, of course, copy the software onto a floppy of the correct size for drive "A". But there is a software command that will allow you to use a different drive than the software is expecting. This command is: ASSIGN. For the example I mentioned above where the software is expecting the drive to be A, and I want to use B, the command is: ASSIGN A=B. To cancel the command, you issue the command: ASSIGN. There is another command that will also do the same function; it is SUBST. This latter is not the preferred command to be used in DOS 5.0. I suggest you change to the ASSIGN command; if you have had batch files, or used other short cut methods, in earlier versions of DOS.

DOS by default routes the printer output to line printer output port (LPT1). At work I have a laser printer connected to COM1 and a dot matrix printer connected to LPT1. DOS allows you to reroute ports, and I have LPT1 rerouted to COM1 on my machine at work. It is executed in my AUTOEXEC.BAT file. The command to do this is: MODE LPT1=COM1. The MODE command also has other functions. For example to change the printer port from LPT1 to LPT2 the command is: MODE LPT2. The mode command also can be used to configure a serial port. Since the serial port default values are not correct for the laser printer, I also use this command to configure the serial port. To set the parameters to 9600 baud, no parity, 8 data bits, and 1 stop bit on COM1, the command is: MODE COM1: 9600,N,8,1. If it is desired to switch back to using the LPT1 printer output for the printer hook up to that port, then issue the command: MODE LPT1. This allows you to use a common configuration of LPT1 in all of your software -- except for Windows. The Windows program does not recognize this DOS reroute command. So in your printer setup, in Windows, you will need to specify COM1 to use that output to print anything running in a Windows application. If you are running any non-Windows applications from Windows, the MODE command to reroute a printer must be used as was described previously.

Otherwise, the printer output will go to the DOS default of LPT1.

Use of the Print Screen command is one that is difficult to find in the documentation, although I see that at least the DOS 5.0 manual does discuss it. Many previous versions, of the manuals, did not include any information on this function. You must hold down the "Shift" key and then press the "Print Screen" key to print from the screen. (K9WTF: So says the DOS 5 manual. However, this is stated in connection with the "Graphics" command. As discussed with Ron, many things can be printed from the screen using the "Print Screen" key alone -- so try the latter. If it does not work then use the "Shift" "Print Screen" combination.) The print out on the printer will be either in the normal "portrait" mode or the sideways "landscape" mode depending upon in which graphics mode you have the computer. If the "Control" key is held and the "Print Screen" key is pressed, then every time the "Enter" key is pressed that line on the screen will be printed.

(K9WTF again: If you want to print from the screen to the printer a long directory listing (more than one screen full) or -- possibly a README.DOC file from a Diskette -- this latter command is useful. It will provide a continuous printout as the file lines are scrolling by on the screen.) This method, however, is only applicable when operating from DOS. It will not work from the Windows environment, whether running a Windows application, or a DOS application started from Windows. Pressing the "Print Screen" key when in the Windows environment places the contents of the screen into the Windows "Clipboard." The "Clipboard" does not have a "Print" command so extra steps are required to print out the screen. Some Windows applications do provide a specific print screen function though. For those programs, it is very easy of course to print out the screen to a printer. □

This article first was published in Hamtrix, newsletter of the West Allis Radio Amateur Club. □

220 Notes Needs New Management

220 Notes, a periodical for aficionados of the 222-MHz band, is looking for new management. Editor/publisher Art Reis, K9XI, and Walt Altus, AA9AW, needing a breather, have put out the four-times-per-year news sheet for 11 years. "That's four times longer than the average lifespan for Amateur Radio newsletters like ours," Reis, 44, says.

"Ideally," Reis says, "we would like to see 220 Notes be carried on by someone (or several someones) who is active on the 222 MHz band, who will have the time to devote to this enterprise, and who has the Amateur Radio savvy to produce or improve the quality of product our readership has come to expect. We can be here for a little time after transfer to help with the technical production questions, and I personally might be able to contribute an occasional article or two to help fill the pages."

If you're interested, contact AA9AW at W6539 Birch Street, Onalaska, WI 54650.

- The ARRL Letter, 1/27/93

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Northern Wisconsin Radio Club

AUCTION

February 22, 1994 • 7:00 p.m.

American Legion Post 53 • 634 Water Street
Eau Claire, WI

CONTACT:

Steve Hart, KA9OMC
Route 1 Box 54

715-665-2374
Knapp, WI 54749

New Senate Bill Protects Amateurs

Continued from front page

federal government stations."

2. In determining whether a frequency reallocation is feasible, the Secretary of Commerce shall "seek to avoid excessive disruption of existing use of Federal Government frequencies by amateur radio licensees."

3. One basis to be used in determining whether commercial use of a frequency is feasible is to be "the extent to which commercial users can share the frequency with amateur radio licensees."

4. The advisory committee convened to review and advise upon the Secretary's report shall include representatives of "other users of the electromagnetic spectrum, including radio and television broadcast licensees, State and local public safety agencies, amateur radio licensees, and the aviation industry."

5. The President may, on certain grounds, substitute alternative frequencies or bands for those chosen. Among the grounds on which he may act is "The reassignment will disrupt the existing use of a Federal Government band of frequencies by amateur radio licensees."

6. Competitive bidding authority given the FCC under this Act "shall not extend to amateur operator services...."

"These changes go a long way toward addressing amateurs' concerns about this legislation, and clearly establish that our needs must be considered as the bill proceeds through the Congress," ARRL Executive Vice President David Sumner, K1ZZ said.

- ARRL Bulletin ARLB014, 2/8/93

League and Traffic News

Continued from page 4

Mars Traffic

The Army Military Affiliated Radio System (MARS), has been handling traffic from troops in Somalia to families back home in the US. MARS operators often need assistance from the National Traffic System (NTS) in obtaining outlets for "MARSgrams."

MARS is a network primarily organized for handling messages to and from American service personnel stationed overseas. Amateurs participate in MARS with a separate license and authorization on numerous nets, all of which are outside the amateur band on military frequencies. Some amateurs provide liaison between the MARS circuits and amateur nets. Traffic for overseas U.S. military personnel with a complete military address can be introduced into NTS and ultimately handled via MARS.

Our Section Traffic Manager, K9KSA in Brookfield, can help answer your questions about MARS traffic or would appreciate receiving reports of any MARS/ARRL activity you may encounter.

In Wisconsin our MARS Director is Richard C. Trempe, 2818 Pine Ridge Boulevard., Wausau, WI 54401, phone 715-848-8095.

NTS Message Origination Award

Hard-working traffic handlers and ARES volunteers receive awards or certificates from time to time for their help. There's the BPL award for 500 traffic points or 100 originations and deliveries in a month. The BPL medallion is awarded for earning three BPL awards. It takes 70 points to achieve the Public Service Honor Roll. There are also the NTS Service award and the Public Service Commendation certificate.

But amateurs new to public service now have available a certificate for neophyte traffic handlers called the National Traffic System Message Origination Award.

To obtain one in Wisconsin, the Amateur Radio licensees must show proof to our Section Traffic Manager, Don Stenz, K9KSA, 12630 West Greenfield Avenue, Brookfield, WI 53005, of having *originated* at least four properly formatted NTS messages in one month.

Good luck on earning this prestigious new award and pass the word on to newcomers. □



Pack 139 Affiliates

Cub Scout Pack 139 Radio Club in Milwaukee has become ARRL affiliated. It was a thrill to present the certificate at one of their meetings to Club President Scott Voigt, in the photo at left. The meeting room was packed with Scouts, and the excitement level was high. Scott and his younger brother John are studying to get their licenses. Fred Gray, N9MTT, of Milwaukee, is the Pack Scoutmaster, and is working hard to get young people interested in electronics and ham radio.

The club station has a Yaesu transmitter and receiver, which were donated by Victor Janzer, WB9TOA, who trains Scouts on equipment operation and operating procedures.

The club will have a joint venture with the Miller Valley ARC later this spring.

- Richard Regent, K9GDF

New Crew Aboard Russian Space Station

A new Amateur Radio cosmonaut crew is active on board the Russian MIR space station. Gennadiy Manakov, U9MIR, (flight commander) and Alex Poleshtshouk, R2MIR, (flight engineer) arrived in late January.

For voice contacts, the new MIR call sign is R2MIR. The packet mailbox is now operating under the call sign R2MIR-1. Listen for MIR activity on 145.55 MHz FM simplex.

Before leaving the station, the departing U6MIR crew sent the following packet bulletin:

Space Station MIR H = 400km from Earth
January 31, 1993

Dear Hams: Tomorrow we will have to return at the Earth... We wish to say good-bye to you and many thanks for your nice contacts. Your messages and voice was help us in the space. We will be very happy to meet you again... ..on the Earth... GOOD BYE.

Crew no. 12 of Space Station MIR:
flight commander - Anatoly Solovvey
flight engineer - Sergey Avdeyev

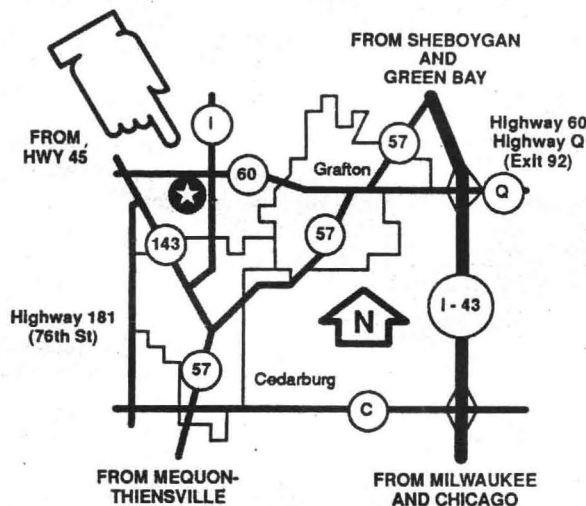
Our thanks to N6JLH and N5VGC for relaying this information to ARRL Headquarters.

- ARRL Bulletin S003, 2/3/93

The OZAUKEE RADIO CLUB presents its 15TH ANNUAL Radio and Computer SWAPFEST CEDARBURG, WI

SATURDAY, MAY 1, 1993
8:00 AM to 1:00 PM

CIRCLE B RECREATION CENTER
Intersection of Highway 60 and County I



ARRL SANCTIONED
PLENTY OF FREE PARKING
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Amateur License exams will be administered between 9:00 AM and 10:30 AM. If you wish to pre-register, send a postcard with your name, call, address, telephone number, and license exam elements desired to:

Badger Examiners
c/o Gary Sharbuno, WI9M
5119 W. Willow Road
Brown Deer, WI 53223
(414) 355-0237

Bring the original PLUS a COPY of your current ham license plus another form of I.D.

WE RECOMMEND THAT TABLES BE RESERVED IN ADVANCE. For more information, call Tom Oehler, WB9LNL, at (414) 242-4995.

Selling permitted in assigned areas only. Please, no smoking in the swapfest area.

TALK-IN: 146.37/97 and 146.52

ADVANCE REGISTRATION FORM — 1993 OZAUKEE RADIO CLUB SWAPFEST
Please send the following tickets by return mail in the ENCLOSED SASE:



_____ advance admission tickets @ \$2.00 (\$3.00 at the door)
_____ 4-foot tables @ \$3.00

NOTE: All persons entering the swapfest must have an admission ticket.

NAME: _____ CALLSIGN: _____ PHONE: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

Mail with your check and a SELF-ADDRESSED STAMPED (BUSINESS SIZE) ENVELOPE to:
O. R. C. SWAPFEST COMMITTEE — 11448 N. Laguna Dr. — Mequon, WI 53092



Clubs and Organizations



Riverland Amateur Radio Club

Dick Low, K0JYB,
Secretary

Club mail address: P.O. Box 621
Onalaska, WI 54650



MEETING MINUTES FEBRUARY 2, 1993

The February meeting of the Riverland Amateur Radio Club was called to order by President Bob, N9LZK, at 7 p.m. There were no visitors present, and 28 people were in attendance.

The reading of the minutes of the January meeting was dispensed with pursuant to a motion by Feroz, WU9N, and seconded by Kent, W9LZQ.

The treasurer's report was given by Duane, W9HWQ, and accepted as read.

COMMITTEE REPORTS

Ham Class: Rick, KV9U, reported on the Thursday evening class and reminded us of the VE Exams to be held on March 25 at 7 p.m. The location is the Church of Christ at 3506 So. 28th St. in La Crosse. Please notify him if you care to take an examination.

Hamfest: Judy, N9LGV, reminded us of the Hamfest which will be held at the Onalaska American Legion Pole Building on August 28, 1993. A discussion was held regarding the opening and closing times, vendors, admission fees, table fees and refreshments. We will most likely limit the refreshments to coffee and doughnuts, making it simple. Flyers will be sent to area clubs and ads will be placed in the *Smoke Signals*. Flyers will also be distributed at Hamfests. It is possible that we may call the fest the "Riverland Electronic Swap Meet". We may also open the doors at 9AM, thus allowing ample time for out of town visitors.

Technical Committee: Van, WA9FIO, informed us that the repeater is working well, and explained the AM and PM modes, sign on messages, as well as the CW ID's. During the nets which is mode 2, no squelch tail is heard. The WX watch and net in operation were also explained. Van also told us that he has a board and is building a voter and will add a remote receiver at a sight in Sparta or Trempealeau to make the repeater more accessible to lower-power handheld transceivers. If you do have an auto dial request or a phone number change, contact Dick, K0JYB, or one of the club officers.

Ambassador Group: Kent, W9LZQ, reported that he received a letter from the Vice President of the Eau Claire club asking primarily about our classes, how we were doing and so forth. He also asked about other club activities. The letter as

given to Rick, KV9U.

Coffee Fund: Dean, KQ0C, last year's coffee chairman, presented \$60 to the club and it was decided to put the money into the general fund.

OLD BUSINESS

Feroz, WU9N, presented the "HAM OF THE YEAR" award to Kent, W9LZQ. Kent has given a lot of service. He runs a bulletin board, is working to establish a high speed digital link on packet, is actively involved in emergency services and visits other clubs.

Dan, N9PZC, presented a report on the 440 repeater project. Two options have been explored. #1. Buy new equipment at a cost of \$3200. #2. Buy a surplus radio and modify it and buy new duplexers for a total of \$1200. We could finance the project by using savings or have a fund raiser. Dan made a motion that we pursue the 440 repeater using a surplus radio and modifying it with an estimated cost of about \$1200 and try fund raising rather than taking it out of the savings. Motion was seconded by Kent, W9LZQ. Motion carried. In the discussion, it was mentioned that the antenna would cost about \$200.

NEW BUSINESS

Scott, KA9FOX, informed us that a number of people have told him they have heard Scott's voice on TV announcements regarding Amateur Radio. Channel 8 has been running the ads frequently. It was suggested that we present the station a certificate of appreciation for running the ads.

Kent, W9LZQ, announced that a Sky Warn training session will be held on Saturday, March 13, 1993 at Cowley Hall on the University campus in Room 100. The meeting starts at 9:30 a.m., and is not limited to ham radio operators. If you know of any law enforcement people, Hams, or someone in the communications field, including news media, please let them know about it. It will go until 11 a.m. and possibly some of the local meteorologists may be there also. An AMS meeting will follow the Skywarn meeting. Any Skywarn spotter should have the training every two years. No cost!

Meeting adjourned at 7:52 p.m.

Submitted by Dick, K0JYB

Wisconsin Nets Association

WNA ON-THE-AIR MEETING 12 DECEMBER 1992

Chairman Larry Guthu, WB9ICH, called the meeting to order at 1827Z, 12 December 1992, on 3.985 MHz. The following members and guests were present: W9AYK, WB9YPY, KE9VU, KA9KLZ, WD5DTG, K9UTQ, N9BDL, N9FVN, WB9ICH, W9CBE, W9YCV, K9KSA, KA9FVX, NS9Q, WC9O, NQ9X and W9ODV.

The chairman called for the approval of the minutes as published in *Badger State Smoke Signals*. Motion was made and seconded (KA9FVX/KA9KLZ) to approve the minutes as published. Motion carried.

TREASURER'S REPORT: Treasurer Jim Merrell gave the following report:

Balance on hand 10/30/92	\$135.46
Expense on State Charter Fee	\$10.00
Expense Secretary expense	\$31.34
Expense Bank Service Charge	\$5.45
Income	\$0.00

Balance on hand 12/11/92	\$88.67
--------------------------	---------

The chairman called for a motion for approval of the treasurer's report. W9CBE inquired which bank was being used for WNA funds. W9AYK stated the First National Bank of Iola was the bank. W9CBE suggested that Jim inquire about getting the service charge rescinded because the WNA is a non-profit organization. Jim said he would inquire. A motion was made and seconded (KE9VU/KA9FVX) to approve the treasurer's report. Motion carried.

(Secretary's note: I contacted the ARRL lawyer about the legality of discussing the treasurer's report over the air. He *strongly* advised against it. You fellows can do what you wish with this information, it's *your* license. I will *not* acknowledge or discuss treasurer's reports or any other business-type communication. We *can* talk about the nets all we want to: WA9ZTY.)

NET REPORTS

Badger Weather Net: Jim Merrell, W9AYK, BWN Net Manager, gave the following report. Jim reported that bad propagation in October had a bad effect on the net, but things improved after the time change. Traffic count is averaging between 65 and 75 and check-ins are good.

Badger Emergency Net: Wayne, KE9VU, NM, averaging 21-22 check-ins per session. We are getting new people on the net, and we are even getting out-of-state check-ins. Traffic is up 4 out of 5 pieces being passed each session, and it's not just holiday traffic. Seems our request to bring more traffic to the net was answered. We would like to thank all the volunteers who have helped with the traffic and net control positions. Everybody is doing a super job.

Wisconsin Sideband Net: Gene, K9UTQ, NM: Activity has picked up on the nets during the fall months. Averaging about 25 checkins per session, 8 pieces of traffic, with about 76% of the traffic being passed. We have a new net control on for Wednesday nights, until Sherm is able to resume his position. The new NCS is Bob, N9NWD. K9ANV is no longer with us for Monday nights, so we will need someone to fill in. Any volunteers?? We are also seeing some new stations checking into the net, which is always nice.

Wisconsin Slow Speed Net: Lee, N9BDL, NM: Activity has remained pretty much the same. Lee says we could always use more checkins and traffic.

WIN/Early: WB9ICH, Larry: Things on WIN Early are also staying pretty much the same. We could always use more checkins and more traffic. We could also use more 9RN reps. Other than that, things are pretty smooth.

WIN/Late: K9KSA, Don: We could always use more checkins. We need on a regular basis stations to check in and take traffic from WIN Late to the sideband nets. The folks that do 9RN duty quite often are not the folks that check into the SSB nets, and they wind up getting stuck with some of the traffic.

STM Report: Don, K9KSA: We have a very good report in *QST* every month. It looks like we handle more traffic than anybody else in the country. We have several people on BPL each month, 7-8 in PSHR, and about 33 people send in their station activity reports every month. We are looking very good!

Northwoods Traffic Net: Mary, NS9Q: Northwoods Traffic Net is on every night of the week, with about 14-15 checkins every night. We are really covering a large part of Northern Wisconsin. A lot of new hams are coming up in the area, and we have recruited several of them to be net control stations. They are doing a wonderful job.

OLD BUSINESS

W9YCV, Les, has been thinking about the updates needed for the WNA manual to encompass packet and other new traffic handling procedures. Things have been too busy for Les this fall to really get started on it. Art, KA9KLZ, and Les have looked over the manual, and have come up with several ideas, that we have all pretty much agreed on. It may be that we will send out amendments, as there are a lot of manuals out in the field already. We would like to use up what we have before we begin printing anything new. Maybe after the first of the year, when things slow down, Art and Les will be able to work on this project some more. Packet and MARS traffic handling, some of the WNA procedures, and history, are areas that we would like to concentrate on.

WB9YPY, just a note, the Badger Weather Net became 29 years old on December 14, 1992. The net was started December 14, 1964. Happy birthday, Badger Weather Net!!

WB9ICH, on the WNA scholarship, we will just leave that hang for awhile until we can get funding for it.

A net similar to the Northwoods Traffic net could be initiated on the Baraboo repeater, for South Central Wisconsin. It is a much-needed avenue for traffic for hams in Southern Wisconsin who do not have access to HF traffic nets. Any volunteers to head up the project?

Hams may become members of the Wisconsin Net Association, and receive *Badger State Smoke Signals*, for \$9.50. Send your check to Jim Merrell W9AYK, W283 Hillendale Drive, Oconomowoc, WI 53066.

K9UTQ, Gene is wondering if we might go back to our old methods of having our meetings, which was to travel to another "host" hams home. We gave this up a number of years ago to save gas, as we were having a gas crunch at that time. Anybody interested in this again? Anyone want to host the first get-together?

We did not elect a Training Officer at the last meeting. Also, we must look over who is listed on our Corporate papers. Les suggested that we get new, younger names on the papers.

The next meeting for the WNA will be March 20, 1993. It will be an on-the-air meeting immediately following the Badger Emergency Net.

73 All,
Rob, WA9ZTY, WNA Secretary

Latest FCC-Issued Call Signs

Here are the latest callsigns issued by the FCC as of February 1, 1993:

Dist.	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AA0LH	KG0DI	N0VHH	KB0KYS
1	AA1FD	KD1MU	N1OFW	KB1AQS
2	AA2MK	KF2MW	N2TPL	KB2PVW
3	AA3DE	KE3GQ	N3OCP	KB3AOG
4	AC4ZT	KQ4NA	"	KD4WLX
5	AB5KI	KJ5HW	"	KB5YJN
6	AB6QH	KN6GJ	"	KD6RVS
7	AA7TO	KI7JT	"	KB7SGY
8	AA8JU	KF8YV	N8WXO	KB8OQD
9	AA9FT	KF9NF	N9SDT	KB9IJP
Hawaii	"	AH6MH	WH6KL	WH6CQE
Alaska	"	AL7OO	WL7IK	WL7CGP
V.I.	NP2W	KP2CA	NP2GI	WP2AHU
P.R.	"	KP4UQ	"	WP4LTF

* All calls in these blocks have been assigned.

- Mark, WB1E, via packet

Specialty Net List

After a long wait, for which we apologize, we expect to publish version number one of our specialty net list in the April issue.

WATTS SNOO



WB9QFW 2-Meter Repeater 146.07.67 and Club Station

P. O. Box 847 • Plover, WI 54467

MEETING MINUTES FEBRUARY 10, 1993

ATTENDANCE

Joe Larson
Art Wysocki
Dave Olson
Paul Nelles
Gordon Miller
Dick Hoppe
Frank Guth
Steve Kochanowski
Jim Benak
Joann Dix
Ray Dix
Frank Podach
David Tamres
Scott Jasper
Dave Melton
Ken Slusarski
Mary Eiden
Gene Kroll
Deb Kroll
Mike Eiden
Roger McFarland
Jim White
Mike Pagel

N9JW
N9BCA
N9JQU
K9DB
KE9IA
KB9IIC
W9BCC
KB9IIE
KA9ACE
N9NOG
KF9BG
N9JQR
KB9IIF
NE9U
KD9NV
N9SDW
KA9FAS
KE9MA
N9EIL
WD9JID
N9SDZ
N9SDU
KA9LAQ

Club President Art Wysocki, N9-BCA, called us to order at the usual 7:30 p.m., with a full slate of agenda items to contribute to the controversy.

A motion was made and approved that CWRA join the Wisconsin Association of Packet Radio (WAPR), in recognition of our ongoing and increasing involvement with packet radio in central Wisconsin.

After some discussion about the extent of current activity on 6 meters in central Wisconsin, the Secretary was appointed to write a letter in pursuit of a 6 meter repeater.

Jim Benak, KA9ACE, told us to mark our calendars for the local Heart Association's Heart Ride, a 60km bicycle race set for Sunday morning, June 27.

Scott Jasper, NE9U, will soon have

available the user manuals and documentation for the WB9QFW Packet Cluster software, at a nominal charge. Contact him to get your copy.

Frank Guth, W9BCC, proposed that the club attempt to join up with the Adopt-A-Highway program. Unfortunately, at present all state highways are spoken for, and the federal highways are not yet opened up for this program. We may see more roads coming under this program in 1994. This proposal was tabled for lack of a motion.

Paul Nelles, K9DB, brought up the subject of an English-only policy for the club's repeaters. Of course, it is perfectly legal to use other languages on the air, as long as you identify yourself in English. But there was a concern that the repeater's control operator may not understand what is going on if a foreign language is used. Nobody has heard any non-English on any of our local repeaters, but as the central Wisconsin area gets dragged into the real world, the potential will grow. The Secretary was appointed to write to the ARRL for suggestions.

David Tamres, KB9IIF, would like to hear from you if you have any experience with amateur radio astronomy, monitoring solar flares, storms on Jupiter, etc.

The meeting adjourned around 9:00 p.m.

Our program was a demonstration of a digital signal processor built from a kit by KA9LAQ, followed by on-the-air testing at the club station.

Next month's program will be Dr. Tamres' presentation on the solar cycle. The meeting will be again in room A109 of the UWSP Science Building, at 7:30 PM on Wednesday, March 10, 1993.

Most people believe in law and order, as long as they can lay down the law and give the order.

*Respectfully submitted by
Joe Larson, N9JW, CWRA Secretary*

Northern Wisconsin Radio Club

- Since 1923 -

Steve Hart, KA9OMC, Secretary

Route 1, Box 54 • Knapp, WI 54749

Greetings, NWRC members and guests.

The last meeting of the NWRC was held January 26 at the Thunderbird Mall, Menomonie. Officers N9KIP, President Eric, N9KVH, Vice-President Cory, and yours truly, KA9OMC, present.

Minutes of the last meeting were read and approved. Balance at this meeting was \$171.45.

OLD BUSINESS

A review of the proposed constitution was the first order. Highlights include moving the fiscal year to the calendar year, and adding the terms of nomination into Article II Section 2. These changes were noted, and the constitution passed without opposition.

The spring thrift sale of household items will be late April in Menomonie. Please start going through usable items you wish to part with. 100% of the sale goes to the club.

N9KVH, Cory, has taken on the role of public relations, and has approached the local cable service on placing information regarding club activities on their channel. We are waiting for the service to send the club the information package necessary to make the ads.

NEW BUSINESS

President Eric signed application forms necessary for KE9RW, Steven

Kraft, to be eligible for a ham radio scholarship.

A discussion of the upcoming auction and the need for food counter followed. Since the meeting, the club has arranged to work the non-profit food stand at Don's Super Value in Menomonie on May 5, 6, and 7. Volunteers are needed for the time 10:30 a.m. to 6:00 p.m. An application for space has been made to Lammer's in Menomonie. K0DL, Don, moved to close the meeting, and N9HME, Dan, seconded.

Following the meeting, a drawing for door prizes purchased by the president and a program on batteries by Don, WD9IUY, were offered. Our thanks to both!

The next meeting of NWRC will be March 23. Meeting place is the Peppermill Restaurant, T-Bird Mall, Menomonie, at 7:30 p.m. Any ideas for a program?

LOCAL AMATEUR NEWS

Dunn County ARRL ARES Emergency Coordinator NX9F, Jim, indicates that there will be SkyWarn training March 27, 1:00 p.m. to 4:00 p.m. at the Murtle Wirth Hospital Education Room on Stout Road on the east side on Menomonie. To register, please call Tom Johnson at 232-2333.

*Steve Hart, KA9OMC
NWRC Secretary/Treasurer*

Mancorad Radio Club

John Meyer, NZ9Z, Secretary

P.O. Box 204 • Manitowoc, WI 54221-0204

MEETING MINUTES FEBRUARY 10, 1993

The February meeting was called to order at 7:30 p.m. by club president, Chuck, N9KGL. The Treasurer's Report was read by Janice, N9IQZ. A motion was made to accept the report by Red, N9GHE, and seconded by Ken, K9HAG -- accepted as read. The minutes of the January meeting were accepted as printed in the *Smoke Signals*. The motion to accept was made by Len, N9QFO, seconded by Dick, N9QFY.

OLD BUSINESS.

A motion was made by Ken, K9HAG, seconded by Red, to buy an antenna analyzer and a triplexer for the club. The triplexer will allow the 2M, 220 and 440 rigs to be used on our triband vertical without always switching coax when changing rigs. Red will check on triplexer prices and Chuck, N9KGL, will price the analyzer.

The final amp for the .61 repeater has been ordered. The repeater may be off the air for a few days for hookup and testing when the amp comes. A separate amp will cost no more than modifying the transmitter for 150 watts.

Insurance for the club was once again discussed. President Chuck noted that several avenues were being explored, including locally.

There was no new word on the sale of the three 6-by's. Someone from Janesville has expressed an interest in them. Other clubs have expressed an interest in the good truck and would like to see it.

Licensing classes are going well. There are a total of 17 students and most of them are studying code! This is due in no small part, we suspect, to the great enthusiasm for CW that their instructor, Dave, KJ9I, brings to the classes. CW classes are even meeting TWICE a week!

The Midwinter Party was a great success with 39 people enjoying the great food and entertainment. Dave, KJ9I, gave an excellent slide/video presentation on the VP8SSI South Sandwich Island DXpedition in which he participated. The videotape left little doubt about the strength of wind and the horrible conditions that group of

hams faced to bring DXers worldwide a new one. Thanks to Dave and also to George, N9BCX, Janice, N9IQZ, and Ron, WS9X, for making the party one of the best ever!

John, NZ9Z, came from a meeting at the Manitowoc County Highway Department with news of the club's participation in the Adopt-A-Highway program. The ManCoRad Club will take care of a two-mile stretch of Highway 42 west of the Point Beach Nuclear Plant. A minimum of 3 cleanings between April 1st and November 1st are expected. An information and safety video will be sent to the club this spring, and all participants are expected to view it before hitting the road.

NEW BUSINESS

John also asked for the club's help with another project. While he was in Sri Lanka last month he had the opportunity to assist in the formation of a new radio club at a high school, St. Joseph's College, in Colombo. He gave two talks there, one on ham radio in the U.S., and another on the varied aspects of ham radio. The new club, about 15-20 high school juniors and seniors, have begun studying toward the equivalent of our Novice and Tech licenses, looking toward the April government licensing exams. Their instructor is John's host, Victor, 4S7VK, an alumnus of that school. This will be only the second active ham club in a high school in Sri Lanka. St. Joseph's has 3400 students ranging from preschool through high school.

John suggested that our club might buy a set of the ARRL books for the school library, as we have done for several of the high schools here in Manitowoc County, and adopt the fledgling club half way around the world as a sister club. A motion to that effect was made by Red, N9GHE, and seconded by Ken, WB9OBX. After a brief discussion, the motion was passed unanimously. The ARRL will send the books directly to the school.

A motion was made to adjourn by Bill, K9DUX, seconded by Chuck, W9-BZU, and passed. The meeting adjourned at 8:35 p.m..

*Submitted for approval:
John Meyer, NZ9Z, Secretary*

Sheboygan County Amateur Radio Club

Steve Meifert, KF9KZ, Secretary

1525 New Jersey Avenue • Sheboygan, WI 53081

The regular February meeting was called off because of the annual Valentine Banquet on the 12th. This year's host was Luiz Cordeiro, KA9HUF. With a total attendance of 30, it was difficult to get to talk with everybody, but none the less we all had a great time. A VY FB! Luiz!

As is tradition, the Ham Of The Year award is presented after the dinner by the previous year's recipient. This year's award was presented posthumously to Ron Mischock, KB9CGO, by Mike Filipiak, KO9Q. Accepting the award was Ron's wife, Eilene.

ANNOUNCEMENTS

A Fox Hunt is scheduled for Saturday, March 13 at 1 p.m.

The club is planning on sponsoring a float for the 4th of July and Holland Fest Parades. It will carry a full amateur station and be in operation during the events. If you are interested in participating, see Penny, KB9BJM.

The Club's Activity Award is presented monthly to the Member who has shown proof of the most number of con-

tacts for the preceding month. Bring your log to each meeting for verification. If you have any questions see Penny, KB9BJM.

The new 1993 *Callbooks* are in the club library and are available for use by members whenever the club station is open.

Al, NF9R, made some "Repeater Operation Notes" reference sheets and also wallet size cards to help explain the operation of the repeater and its emergency capabilities. If you did not get yours, more will be made available at the next regular meeting.

March 9, 1993 - After the conclusion of our regular business we have the honor of introducing Dave Schmocker, KJ9I. He will give a presentation on his experiences with the VP8SSI, South Sandwich Island DXpedition.

This should prove to be a very interesting program for all amateurs, so come early and get a good seat.

*Respectfully Submitted:
Steve Meifert, KF9KZ*

Taylor County Area Amateur Radio Club

Bernard Jari, KA9WDX, Secretary

W3159 Hanley Lane • Medford, WI 54451-9589

TAYLOR COUNTY AREA AMATEUR RADIO CLUB MEETING ANNOUNCEMENT

The regular monthly meeting will be held on Thursday, March 4th at 7 p.m. in the Emergency Government meeting room/Red Cross office located in the basement of the sheriff's annex to the Taylor County Courthouse, on the corner of 2nd and Ogden Streets, across the street from the phone company in Medford, WI. Talk-in will be on the 147.750/147.150 repeater located at the N.T.C. Branch Campus.

MINUTES OF THE FEBRUARY 4, 1993 MEETING

The meeting was called to order by the president, Tom Hrdina, N9GEN, at 7:05 p.m. Present were: Cliff Steevens (WA9YCT), Bob Goessl (KE9LX), Bernard Jari (KA9WDX), Frank Kleczewski (K9LRS), guests Les Laub and Doug Pinkston (all from Medford), Ray Gajda (N9IDW, Lublin), Bob Braun (KB9BLV), Jack Pagel (NZ9U), and Ernest Mehner (WD9FWP, all from Dorchester), Tom Hrdina (N9GEN, Gad), Walt Lang (N9LIE, Sheldon), Gary Day (KE4FE, Rib Lake), and Mike Schoenfuss, N9GHZ, Abbotsford).

There was an informal discussion on informal topics due to a few members who called in via two meters to let us know that they would be about ten minutes late, but were on the way.

The minutes of last month's meeting were read starting at 7:17 p.m. by the secretary, KA9WDX. The minutes were approved as read. The treasurer's report was given by WD9FWP, and was approved as read.

Old and new business was temporarily tabled in favor of going on to the evening's program, which was a critique by the guest speaker, Doug Pinkston. Doug attended our meeting to let us know just how well we did at the recently-help P-Town Tramp, the first annual snow-shoe races which were held in Perkinstown on January 23, 1993. According to Doug, the event was "slapped together" at the last minute, and he stated that he was extremely grateful that we were available to help with the communications. Doug stated that we did a good job out there, and he said that he wanted us to help out again next year.

Doug stated that he hadn't been aware of our existence until he had a phone conversation with Roland Sacho, the Emergency Government Director of Taylor County. Doug's conversations with Rollie included asking Rollie if there were Motorola radios available for use in communications at the local event. Rollie mentioned that there are Amateur Radio operators in the area, and that they would have the capability for that task.

Next there came a discussion on things we could do to "prepare for the worst," as Doug put it, including ideas on who we should contact for assistance in cases of extreme emergencies, like having an emergency vehicle with driver(s) on standby, first responders, EMT's, etc., or who we should try to contact in case we can't have anyone at the scene on standby. Doug also mentioned that we could hold a drill or simulation of an emergency at the P-Town Tramp, just in case something would ever happen at the event, and to make sure that we would know what to do in the case of an actual emergency.

Doug his expressed his interest in finding out more about our club members and just what capabilities we do have. Doug stated that he hadn't been aware of the fact that we as hams have the capability to send and receive television pictures for example, and would like to find out what else we could do.

I had had a talk with Doug at an appreciation luncheon held at the P-Town Inn in Perkinstown on the evening of

January 25, 1993 for those hams who were able to attend the races and help out with the communications. Perkinstown is located in the heart of the Chequamegon National Forest, northwest of Medford on CTH "M". The conversation led to myself mentioning ATV to Doug. Doug stated at our meeting that it would be great if we could have ATV at the annual snow-shoe races, and we discussed that possibility.

Doug thanked us for allowing him to attend our meeting to present a critique on our operations at the Perkinstown Tramp, and then had to leave.

We then went on to new business. Mike, N9GHZ, stated that he had contacted Greg Garner (WA9W, Harshaw) of the Tomahawk VE testing team, and that it was a "go" for the May 1st, 1993 testing date. I guess that Greg stated that there would be some help from the Tomahawk testing team, as we don't quite have enough VE certified testers of our own yet. The tests will be held at the Multi-Purpose Building at the Fairgrounds, located just east of the intersection of State Highways 13 and 64. The entrance is the second driveway east of the stop and go light on the north side of the road. Registration begins at 8:30 a.m., with testing to begin at 9 a.m.

Mike, N9GHZ, stated that he will be holding Novice code and theory study classes on 11 consecutive Monday evenings, starting February 15, 1993, and running until Monday, April 26, 1993. The classes were set up in about two weeks, to coincide with the May 1st testing date. Just in case any No-Code Technicians would like to sit in on the code portion of the class, code will be taught first from 7 p.m. until 8 p.m., then theory will last until about 9:30 p.m.

For more information about the testing session, contact either Mike, N9GHZ, 210 S. 4th St., P.O. Box 401, Abbotsford, WI 54405-0401, phone (715) 223-3996, or Greg, WA9W, 4088 Highway 51, Harshaw, WI 54529, phone (715) 453-7096. You can try to contact Greg over the air on the 144.830/145.430 or 146.370/146.970 repeaters, or Mike on the air on the 147.750/147.150 repeater.

We then went back to old business. There was a discussion of the possibility of putting a tone-access on the repeater for the purpose of silencing the receiver when the "Polish Razzberry" type of interference was present. The members present seemed to be divided on this issue. It was stated that it may temporarily "solve" our problem, but it could possibly keep some people from being able to access the repeater, as everyone may not have tone encode-decode. It was stated, however, that the repeater may not be monitored as often anymore due to the annoying "buzzing" noise that the "Polish Razzberry" causes.

Walt, N9LIE, mentioned the time and effort put into looking at the old repeater receiver (Hamtronics), and that he thought that it would cost about \$50.00 to fix. Walt stated that the sensitivity had dropped sharply, and that it probably wouldn't be worth it for the club to fix. Mike, N9GHZ, entertained a motion to give the old receiver to Walt for his trouble. Bob, KE9LX, seconded the motion, and the motion carried.

Mike, N9GHZ, stated that he had received a letter from Ray Bohnert, W9QHI (Medford), and in the letter Ray stated that the paperwork had been sent in to the Wisconsin Association of Repeaters (WAR), and that our repeater was no longer listed as a coordinated repeater, according to Nels Harvey, WA9JOB's, records. It seems as though no one had sent in a repeater site survey form for at least two years now.

The discussion moved on to talk about the emergency communications bus. Bob, KE9LX, talked about the Larson 1/2-wave on-glass mount dual-band antenna that he has been using for some time now, and it looked like the members present were considering this antenna for the "on the move" mobile communications installation.

The next topic of discussion was what type or kind of antenna we will come up with for when we are operating a stationary station, along with a type of mounting system. The type of antenna agreed upon was a vertical, the type of mounting Bob, KE9LX, and himself, would see if they could come up with something, and the antenna support was discussed, but hasn't yet been decided upon. Possibly a "fold-over"-type mounting system, or pipe, or tower sections were discussed. Also discussed was whether or not the mount would be a permanent one, or if it would be one that we would set up when we got to it, or if part of it would be permanent, and part of the mounting system would be put up when needed, etc. Also discussed was whether to get two antennas, as we have a dual-bander (2M/70cm), or whether or not to get a dual-band antenna and a duplexer. It was decided that we would get a dual-band antenna and a duplexer, but that we could get the antenna at just about any time.

Mike, N9GHZ, mentioned that he was holding bills that he had paid out of his own pocket for club ads mainly directed at the nursing homes placed in the 11/25/92 and 12/12/92 issues of the *Tribune-Phonograph* (Abbotsford), the 11/25/92 issue of the *Star News* (Medford), and the 11/28/92 issue of the *Marshfield News-Herald*. There was a motion made by Bob, KB9BLV, to have the club reimburse Mike, N9GHZ, for his "out of pocket expenses. The motion was seconded by Gary, KE4FE, and the motion carried.

Without anyone coming up with any further business, it was the consensus of everyone present to adjourn.

The meeting was adjourned at 8:56 p.m.

Respectfully submitted:
Bernard Jari, KA9WDX, Secretary



Clark and Taylor
County Area
Amateur Radio News

By Mike Schoenfuss, N9GHZ

**ATTENTION: 1993 CLUB/REPEATER
DUES ARE NOW DUE AND PAY-
ABLE!!!!**

1993 TCAARC club and repeater dues are now due and payable. Dues for the club and 2-meter repeater, including autopatch, are \$10.00 a year. If you would also like a subscription (or wish to renew your subscription) to *Badger State Smoke Signals*, which carries (prints) our club's monthly newsletter, add another \$5.00 (total of \$15.00). Make checks payable to Taylor County Area Amateur Radio Club. If paying by mail, send to current club treasurer Joanna Lundgren, N9QVX, W16095 Beech Drive, Sheldon, WI 54766. Or, bring your payment to an upcoming club meeting.

The following is a list of all those who have already paid dues for 1993, according to my records at this time. I will update my list in the near future:

W9QHI	KB9BLV	KE4FE
N9IDW	KE9LX	N9GEN
KA9WDX	N9LHY/N9QVX	
N9FZD	WD9FWP	KB9AMZ
NZ9U	N9QWB	N9GHZ
WA9YCT	WD9C	WD9ASX
W9LEE	KB9AMX	WA9ZCO
KA9SMQ	KA9UXN	N9FZS

**ATTENTION: BADGER STATE
SMOKE SIGNALS. SUBSCRIPTION
PAYMENTS ARE DUE!!!!**

By an earlier vote of the club membership, effective this year, individual members' share of their subscriptions to BSSS are being collected in January of each year, rather than in the month in which each individual subscription runs out. This will simplify the bookkeeping for the club's treasurer. Even if your subscription does not run out until later in the year, you will still be credited for the remaining time on your subscription, and the club will ensure that you receive it for the entire year. The club makes quarterly (4 times a year) payments to BSSS, so for many of you, your subscription expiration date will be renewed for a 3-month period

every 3 months.

If you have not yet made a \$5.00 payment for renewal of your *Badger State Smoke Signals* 1993 annual subscription, please take care of it within the next 2 months. Anyone not having paid their annual share of the subscription by the time of the next quarterly billing will be dropped from the mailing list. Make checks payable to Taylor County Area Amateur Radio Club. If paying by mail, send to current club treasurer Joanne Lundgren, N9QVX, W16095 Beech Drive, Sheldon, WI 54766. Or, bring your payment to an upcoming club meeting.

The following is a list of all those who have already paid their share of their BSSS subscriptions for 1993, according to my records at this time. I will update my list with the club treasurer again in the near future:

WA9YCT	KB9BLV	KE9LX
KA9WDX	W9LEE	KE4FE
W9QHI	N9LHY/N9QVX	
N9QWB		

BITS AND PIECES

• Marv Opitz of Jim Falls, WI has finally received his Amateur Radio license after a wait of 10 1/2 weeks. His callsign is N9RVV.

• Also receiving his license is Ken Smith, Granton, WI. His callsign is N9RRF. Ken is operating 2 meters with a handheld in conjunction with a power amplifier and outdoor antenna, and also has mobile capability.

CONGRATULATIONS TO....

Leonard Van Wey of Sheldon, WI, and Darren Bishop, of Ladysmith, WI, who qualified for their Amateur Radio licenses at the VE exam session held in Tomahawk on January 30th.

TAYLOR AND CLARK COUNTY AMATEUR RADIO EMERGENCY SERVICE NEWS

From Mike Schoenfuss, N9GHZ

On 1/16/93, the Taylor County ARES provided communications for the Perkinstown Tramp, held near Perkinstown, WI in the Chequamegon National Forest in Taylor County. This is one of only three snowshoe races held in the state. The Tramp consisted of a fun run for the younger trappers, a 3-mile timed run, a 6-mile timed run, and a 6-mile tour for those who wished to carry a 15-lb. pack and view the scenery.

This was the first annual event, and we were first contacted to help only a few weeks prior to the date of the event. N9LHY did the pre-race workup just 3 days before the event to determine what would be needed to provide the communications required. As this is a very hilly and wooded area, it was decided to use the TCAARC 2-meter repeater in conjunction with handheld radios, plus a net control station and one crossband repeater mobile. N9QVX handled the net control station duties with ease, thanks in part to assistance from "harmonic" and "gofer" Chris, son of N9LHY and N9QVX. N9GEN, NZ9U, N9QVY, KA9WDX, N9LIE and K9LRS handled checkpoint duties, and N9LHY covered the "rover" duties.

N9GHZ provided the use of his tripod and a 10-foot section of mast for use with the antenna at the net control site.

Communications and services provided consisted on "in race" results, health condition of those involved in tramping, and arranging travel services for those who did not wish to finish the race in the "tramping mode." The last service was not required this year!

Race organizers Doug Pinkston, Ken Kraft, and Dick and Edna Akins were so impressed by our efforts that they have already asked for a repeat performance next year. An appreciation dinner was provided on 1/18/93 by the P-Town Inn for all the support personnel. It was attended by many of the hams who assisted at the Tramp, and it was thoroughly enjoyed by all. A special thanks to those who offered to help, but were unable to attend.. perhaps next year?

(Note: The above report was submitted by N9LHY and N9QVX.) □

Racine Megacycle Club

Arne Moxness, KA9ZPY, Secretary

3345 Newman Road • Racine, WI 53406

MEGACYCLE MEETING FEBRUARY 8, 1993

The meeting was started at 7:30 p.m. by our new president, Dick, W5ONL.

Everyone introduced themselves with their calls. Thirty-two members were present, including five new hams.

The minutes as presented in the *Badger State Smoke Signals* were approved.

Treasurer Dave, WB9ZIO, gave a financial report. New balance is \$428.53.

OLD BUSINESS

Cheryl, WS9P, reported on the upcoming Big Boys Toys.

Jim, KB9CCY, will be in charge of the Field Day site. He needs a few more assistants.

The Treasure Hunt will be run by Alex, N9RGX.

VEC testing will take place between 9:00 a.m. and 11:00 a.m. at Evangelical United Methodist Church at 212 11th Street. We need some volunteers to run that function; must be Extras.

Joe, KB9HSJ, reported on the possible use of the club station for those hams who are interested. We need some control operators, General class and up. Please call Joe at 637-1165 if you are interested. Schedules are to be worked out.

Larry, WA9JMO, reported on the Ham Dinner. Larry is still looking for an MC.

NEW BUSINESS

President Dick, W5ONL, reminded everyone of the upcoming Wisconsin QSO Party, and asked all to participate. Details are in the BBS.

Dick, W5ONL, presented the newly revised and proposed Bylaws as introduced by Bob, W0WLN. The old and new versions were read by Gary, N9MGH. At the next meeting, there will be a vote by the members who attend, and the changes will go into effect as per the Bylaws.

The "Goodie Box" was donated to the

HAM CALENDAR

Courtesy Racine Megacycle Club

Mar	1	.....	Packet Group
Mar	5	.....	Fox Hunt
Mar	6	.....	Testing at Red Cross
Mar	8	.....	Megacycle Meeting
Mar	20	.....	Fox Hunt
Mar	21	.....	Hamfest at Jefferson
Mar	28	.....	Hamfest at Grays Lake
Apr	2	.....	Fox Hunt
Apr	3	.....	Testing at Red Cross
Apr	4	.....	Hamfest at Madison
Apr	12	.....	Megacycle Meeting
Apr	18	.....	Hamfest at Rockford
May	8	.....	Hamfest at Manitowoc
May	10	.....	Megacycle Meeting
May	20, 21, and 22	.....	Hamfest at Racine
Jun	6	.....	Hamfest at Princeton
Jun	13	.....	Hamfest at Stevens Point
Jun	14	.....	Megacycle Meeting
Jul	10	.....	Hamfest at Oak Creek
Jul	12	.....	Megacycle Meeting
Jul	24	.....	Hamfest at Eau Claire
Aug	8	.....	Hamfest at Peotone
Aug	9	.....	Megacycle Meeting
Sep	13	.....	Megacycle Meeting
Oct	11	.....	Megacycle Meeting
Nov	8	.....	Megacycle Meeting
Dec	13	.....	Megacycle Meeting

undersigned; thanks a lot!

Bill, W9OVC, reported on the Ham of the Month, which will be presented in the BBS monthly.

Alex, N9RGX, volunteered to put together a class for new Hams.

The meeting was adjourned at 8:35 p.m.

Respectfully submitted:
Arne, KA9ZPY, Secretary

Eau Claire Amateur Radio Club

J. Brennan Fitzl, N9LIJ, Secretary

1418 Altoona Avenue • Eau Claire, WI 54701

MINUTES OF THE EAU CLAIRE AMATEUR RADIO CLUB FEBRUARY 9, 1993

The meeting was called to order at 1935 local time by President Bill Jablonske (W9NNS).

Because of the program scheduled for this meeting and the length of last month's minutes, a motion was made and seconded to dispense with the reading of the minutes of the January meeting and they were approved as published in the *Badger State Smoke Signals*.

Sue (KB9EUP) read the treasurer's report, which was approved. Sue and Joe (KB9R) distributed copies of the club roster for 1993 to members present. The club currently has 110 paid members. General introduction of members and guests followed.

Happy Birthday to the following members who have birthdays during the month of February:

W9FAC	Paul Belland
K9IBB	Ila Books
K0KD	Kirk Dahl
N9FLN	Gordon Englund
WJ9R	Karen Lowe
KB9BC	Gale Otterholt

OLD BUSINESS

Cards for wallet and car for repeater users were briefly discussed.

The speed dialing feature has been implemented on the K9UXP repeater. Fred (WU9R) is in charge of assigning and programming individual speed dialing numbers. Members interested in getting a speed dial number should contact WU9R.

A welcoming committee on repeater was again briefly discussed. No decisions were made.

W9NNS said that anyone interested in teaching no-code Technician classes should see him after the meeting.

Fred, KC9NN, reminded the group that directors for the club must be elected this evening. Nominations from the floor were opened, but no new nominees were suggested. Nominations were closed, and the vote was taken on the slate of candidates nominated last month. Club directors for 1993 are as follows:

Joe (KB9R)
Dan (N9HME)
Carl (W9NW)

Jim (N9LIJ) reported that he had sent a letter to the party concerned in last month's discussion of mis-use of the re-

peater. He has received a very courteous, co-operative reply, and the matter is considered closed.

KB9EUP has "Bluebook" club by-laws and repeater guides for those who need them.

NEW BUSINESS

Charlie Carpenter of Memorial High School wants a club presentation of Amateur Radio at the school. N9LIJ and W9NNS said they will help with this project.

N9LIJ requested members present to advise him of their ARRL affiliation, if any, so he could complete the annual report to the ARRL as an affiliated club. He also requested that members who wished to renew or join ARRL do so through the club in order that we may reap the benefits.

W9NNS mentioned the possibility of using the RAIN dial-up program on our Sunday evening net. This is Hap Holley's news program of interest to Amateur Radio, and could be accessed via the repeater autopatch. Discussion on this matter was deferred to a future meeting.

W9BAR spoke briefly about the W5YI proposal to streamline licensing. He says the FCC is going to restructure ham radio in the next few years. Among items being considered is the complete privatization of amateur and commercial licensing. The club deferred to a future meeting the matter of whether we should support this effort by W5YI.

KB9EUP suggested that the club recognize members who donated to the repeater controller last year with a letter of thanks and tickets to this year's Hamfest. Motion carried.

GENERAL

- Don (WD9IJY) left some material on care and feeding of NICAD batteries for those interested.

- Leroy (N9RSU) left some copies of an electronics magazine for interested members, courtesy of Rich (N9MEH).

- Lunch committee for next meeting: Bob (W9BUG), Willie (WA9BZU).

The business meeting adjourned to hear the extremely interesting narrated slide/tape program offered by Janet (K0JA) and Janite (K0JE) Robidoux on their volunteer working-vacation/DX-pedition to the island of Tonga.

Respectfully submitted:
J. Brennan Fitzl, N9LIJ, Secretary

Racine Megacycle Club Profiles

By Bill Komistra, W9OVZ

Starting this month, and each month thereafter, a profile of a club member will appear in *Badger State Smoke Signals*.

CHERYL MILLER, WS9P

Born on September 4 (never mind the year), this young lady first acquired her Novice Amateur Radio license in May of 1985. She upgraded to General and finally to Amateur Extra in May of 1990.

The WS9P equipment presently includes, for HF, a Yaesu FT-757, and for VHF, a Kenwood 2400 and a TH-28A. The antennas are a Butternut vertical for 80 through 10 meters and a quarter-wave for two meters.

She does not have any certificates yet, but Worked All States (WAS) has been worked. This award requires submission of proof of contacts with all 50 states. Cheryl would also like to collect special event certificates.

She got interested in Amateur Radio through a friend, Gary, KC9MM, both of whom are teachers in the Racine Unified School District. She teaches seventh and eighth grade English at Gilmore Middle School in Racine, Wisconsin.

Cheryl is an avid promoter of ham radio. She teaches code and theory to many of her students. Approximately 15 students have received their licenses through her efforts. Her son, Jim, is a Technician class licensee, and signs KB9-HCM.



Cheryl Miller, WS9P

To relax from her busy schedule, she enjoys talking on radiophone, playing piano, and watching television and videos on occasion. This also includes a love of the arts, ballet, concerts, theatre classics, and reading, with some travelling to warm places, like the Caribbean.

Cheryl has been a vice-president of the club. She takes part in Field Day, and likes transmitter hunts.

To this very active, lively and interested person, the Racine Megacycle Club gives a great, big cheer and a hip-hip hooray! □

Watch Your Wallet!

How will president Clinton do on raising revenue? Duane Meyer, KX9N of Milwaukee, asked himself that question and now shares his omen of the future.

One day Duane was at the Milwaukee Police Communication's Shop where he works. He was standing on a stool returning some equipment to an upper shelf. As he started moving back down to the floor, his right rear pants pocket, where he keeps his wallet, got caught on microwave hardware on a

lower shelf behind him. He couldn't stop his downward momentum and tore the pocket wide open. His wallet turned and almost fell out.

Meanwhile, at that very moment, Bill Clinton was being sworn in as President. Later in amazement, Duane recalled President Bush's warning, "Watch your wallet if Clinton ever becomes President."

- Rich Regent, K9GDF
Milwaukee, WI

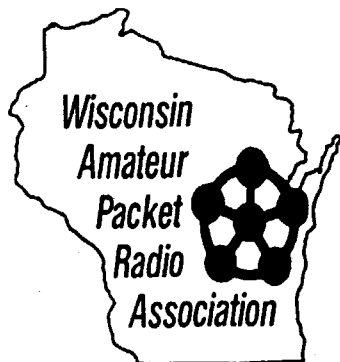
More SAREX Hams!

STS-55, Space Shuttle Columbia, welcomes aboard their fifth Amateur Radio-licensed crew member. Charlie Precourt, Mission Specialist, just received call letters, KB5YSQ. Originally set for launch February 25, STS-55 has been delayed for a mid-March launch.

Steve Oswald, STS-56 Space Shuttle Discovery Pilot, also recently passed his

Amateur Radio exam and received call letters KB5YSR. This makes the second all-ham crew in history. The first occurred with Ken Cameron's STS-37 flight in April 1991. Ken will be commanding STS-56.

No word has been given regarding new launch dates for STS-56 and STS-57. We will bring you further details as we receive them.



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

William Schroeder, W9ZBD

4247 Forest Point Drive • Rhinelander, WI 54501

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

Meeting Wisconsin Rapids

BBS Sysops, node managers, and those building the ever-improving Wisconsin backbone will meet at Forsters' Restaurant on So. Hiway 13 in Wisconsin Rapids on MARCH 20 from 9:00 to NOON. Please forward your ideas for the agenda to W9NNS asap. We need solid representation from the southern system areas, especially regarding the 9600 baud link from Nodine to Lodi. Other concerns need to be discussed, such as the presence of PacketCluster on 145.01 in the northern Wisconsin/Duluth region. Also of concern is the announced node for 145.01 to be put in operation in Solon Springs soon. We want to raise the baud rate on the six meter backbone soon. And the list goes on. We need input from each region since it is hard for one person to get up-to-date info on every area of concern. I'll be looking for your responses. Bill W9NNS (WAPR chair) February 11, 1993.

12th ARRL Conference on Digital Communications

Well, here they are. the sketchy and TENTATIVE details. Mark your calendars. If you have any questions, send me a note.

This year's Digital Conference (formerly the Computer Networking Conference) will be in Tampa Florida. The Conference will be hosted by the Tampa Local Area Network (TPALAN). The date of the Conference is September 11, 1993. The Conference will be held at the University of South Florida.

The request for papers will be in the March issue of QST, with the deadline for submitting papers by July 30th.

For family members that AREN'T attending the Conference, the Museum of Science and Industry is adjacent to the University, Busch Gardens is only minutes away, and a major shopping district (with a large mall) is right there.

Hope you can come!

Brian - TPALAN President
73 from Brian A. Lantz
KO4KS@KO4KS.#TPAFL.FL.USA.NA 3100813105
Internet: brianlantz@delphi.com
Amprnet: ko4ks@ko4ks.ampr.org .98.0.167]

MAJOR Change at WA9KEC

Hi Folks,

Well, I went and killed the budget this time. The rumor that I have bought a Gracilis PackeTen is true.

Sometime this weekend, Jan. 30/31 the nodes W1KEC:WA9KEC-2, #NP446:WA9KEC-3, and #NP222:WA9KEC-4 will go QRT. These three nodes will be replaced by the PackeTen switch with the node name of WINPRA:WA9KEC-1.

The PackeTen will be running with the NetRom simulator user interface active on all ports. When you connect to the switch it will act like a regular node, and has all the commands you are use to. The MSYS bbs will be connected to it as it was to the node stack.

Enjoy es 73, Hawk

USER COMMAND LIST

TNPlus version 2.06 has the following commands available to the user: (Commands may be abbreviated as indicated.)

BYE (B) - Use this command when you want

the disconnect to be initiated from the far end of the circuit.

CONNECT (C) - This is the general command to connect to and from the node. Examples are: "C WISLG" to connect to a node, "C WB9TYT" to connect from the node to a local station. Connecting through a digipeating path is allowed: "C WB9TYT v WISLG", for instance.

Q - When the node receives a Q command, it transmits once: Q plus any user text up to a maximum length of 77 characters, including spaces. The node is also conditioned by this action to display the Qing station in it's USERS response for a period of time set by Parameter 15 (usually 15 minutes), unless the Qing station issues some other command before the time runs out. Should another station perform a USERS command during this time, he would be able to see something like this:

WISLG:WB9TYT-7> TheNet Version 2.06 (695)
Circuit (WILOD:WD9ESU-7 W9ABB) <> Q (W9ABB-15)

Anyone observing the Q can connect to the node and then connect to W9ABB-15 to initiate a QSO. If the Qing station doesn't get a reply after a few minutes, he can reinitiate the C command from time to time in hopes of attracting someone in the local area of the calling node. Remember, each time the Q command plus text is given it will be broadcast in unproto form by the node for just that one time.

HEARD (H) - The "H" command will display level 2 (normal) users heard by the node during the past 15 minute period. Netnodes and level 3 users will not normally be seen once your node has "initialized" itself (a 30 - 60 minute period after startup). The maximum number of users allocated for the Heard table is 20 and is a SYSOP settable parameter. Stations listed in the heard table are not ranked in order of time. I.e., the first station listed may not be either the most recent or the oldest station heard. If a station has not been heard during the past 15 minutes, a "No One" response is given.

The Heard function compares the new call with the node alias table. If a match is not made, the new call will appear on the Heard list. There will be times when either a new node or a propagated node callsign will appear on the Heard list. Following receipt of a node broadcast containing the alias for that particular node, the node callsign will then be deleted.

Digipeated and local node downlink callsigns will also be listed. If a user notes an SSID of -14 or -15 associated with the callsign, the odds are these calls will be unconnectable since the originating station is separated by one or more digi's or nodes.

INFO (I) - TNPlus now contains one SYSOP programmable INFO section which has a capacity of up to 160 characters including control characters and spaces. The dual "hard" and "soft" INFO found in previous versions has been replaced by this more versatile feature. It is doubtful the user will be able to tell any difference, unless the NodeOp forgets to reprogram it after a RESET. The advantage to the NodeOp of having a completely programmable INFO section is he will not have to completely reprogram the TNPlus Eprom should circumstances require a change of the text formerly found in the hard coded portion (normally QTH and node frequency).

While 160 characters are now available, good network management practice dictate only enough text be used to get the pertinent message across. Although it may seem "distinctive" to fill the remainder of this space with spaces,

line feeds, or Control G's, please don't do it. Users find such practices annoying plus it dumps unnecessary packets onto our congested networks.

NODES (N) - This command calls down a listing of the nodes contained in the NODES table. It gives a user a listing of possible destination nodes for him to connect to. It's a very good practice to use this command sparingly. Owing to the condition of our congested networks, a nodes dump may cause all users on the channel to be disconnected due to the large barrage of packets this command normally yields! Since our VHF networks are relatively stable, the chances are, the contents of our local node table is not apt to change radically from hour to hour. Thus local users should be encouraged to NOT command a NODES dump every 5 minutes!

Variations on the N command are: "N *" and "N <alias or callsign>". The "N *" command ADDITIONALLY yields a NODES dump of the # (hidden) nodes. The hidden nodes are those normally associated with backbone trunking. As such it is not normally intended for users to connect to them. A very excellent command is that of "N <alias or callsign>". This allows a user to determine the path quality and identification of the nearest node leading to the destination node used in the command. An example:

We are at the WISLG node and wish to know the route to WIANT. We issue a "N WIANT" command and receive back this response:

WISLG:WB9TYT-7> Routes to: WIANT:K9MLD-7
250 5 0 #SLG2
146 5 0 #SLGB

This tells us there is a DIRECT radio path (the 250 and 0) and that the path is fairly current (as indicated by the 5). We can then assume we have a high probability of success should we want to connect to WIANT. We also note there is a secondary path to WIANT via #SLGB. The numbers given in the N <alias or call> command will be explained later. Here we just want to show how the N <alias or call> command is a powerful tool to help one navigate throughout the network.

PARMS (P) - (Parameters) Issuing this command will yield a status listing of the nodes parameters. There are 30 (up from 26 in previous versions) of them and the node response may look like this:

WISLG:WB9TYT-7> 100 61 192 255 6 5 1800 31
45 4 3 180 4 7 900 225 10 4 3 7 85 18000 1 0 1 1
0 20 30 0

Each parameter affects the node operation in one way or another. The values chosen for your node will impact the operation of the other nodes in the network. The convention is to number the parameters from left to right in the example above, starting 1, 2, 3, etc.

ROUTES - This command yields a listing of all radio line of sight or wire connected nodes "known" to the node. The listing will also show nodes and digi routes set by the SYSOP locking commands. Due to the different protocols involved, Thenet does not recognize KA-Nodes, ROSE nodes, or TEXNET nodes in it's ROUTES list. It will recognize G8BPQ, MSYS and TCP/IP nodes. A typical ROUTES display may look like this:

W1EX:W5CDM-3> Routes:
0 ODSA 192 30
> 0 DKC 192 23
> 0 MAF 192 10
0 FST 192 16
0 RKN 192 11
0 BGS 192 5

Here we see in column 1, all of the connections are via direct radio port (0) paths. The right arrow indicator tells us two of the paths are either in use or have had activity within the past 15 minutes. All radio paths show a standard path quality value of 192. The last column indicates the most active node in the list is ODSA with 30 destination routes showing. The least active is BGS with 5 destination routes showing.

This is excerpted from the fine Manual with NordLink, Version 2.06. The nodes in Slinger are changed over & Lodi will be done ASAP. There have been improvements in the Routing & Networking levels of the software & preliminary observations confirm this. Your comments & observations are welcome in this attempt to upgrade our growing network.

Tnx es 73... Dan, WB9TYT....

HOW TO BE A PACKET LID (Constructive criticism by WB6AAM)

When Clem and Jim-Bob started in packet, they had a natural desire, like some new hams to tell the world there is yet another packet station on the air. When they saw the TNC manual, the first thing that stood out was the beacon feature. Our two lids fantasized that packet would be something like catching fish in the old fishing hole, and that people would all want to connect, with their beacons as the bait.

Clem and Jim-Bob studied their TNC manuals further and learned that the beacon in their TNCs could be set to go off anywhere from every 1 to 250 minutes. (Or not at all) In their studies our two rubes also learned they could set their beacons to digipeat through cascades of high-level nodes and digipeaters to improve the "fishing". They learned some other nifty things like putting "CQ" after their callsigns, (whether they were calling CQ or not) and putting <CTRL>G in the beacon text to ring people's bells. Clem and Jim-Bob also thought they should put some important information about their stations in their beacon texts, because everyone would want to know!

This is what everyone else on the channel saw, once every 5 minutes, and repeated over and over through several digipeaters. If there were any other CQ calls or beacons belonging to nodes, gateways, BBSes or other services, these were quickly knocked off everyone's monitors by Clem and Jim-Bob:

WY74LID>CQ

** cLEm**/USa,riG hR Gonzo GX2000 tUrbO/Ant Powerprong-67 1/2 wATts/BBS K>>>

KH32LID>BEACON

Cq cq/digI JIMBOB in pOdunk/tNC hr packet porker PP-231\ hAv a NicE day !

Notice how these beacons clearly state important information, such as BBS, digipeater or node aliases or callsigns! Notice the correct spelling and the clarity of the texts!

Fortunately, for Jim-Bob and Clem, their community was a progressive one. Rather than hold an "antenna party", the locals on packet took up a collection to pay for psychiatric treatment for our two lids. It turned out that Clem and Jim-Bob both had severe ego problems which caused the obsessive beaconing. Clem and Jim-Bob prior to treatment both had a low sense of self-esteem. They were both obsessed with the idea that also afflicts dogs, boom-box owners and graffiti-writers, that is LEAVING ONE'S MARK. In this case, it was the packet community who had to put up with these rude assertions of "territory".

Now, two years after treatment, Jim-Bob has left packet and amateur radio. He was recently arrested for spray painting his name on a building. Clem is doing better. He works for a firm that makes navigational beacons and is a sysop of a popular forwarding BBS with several HF and VHF ports.

Don't end up in skid row or in a mental institution. If you set your TNC to beacon excessively, you may need professional help. Ask yourself: Does your TNC offer a service to the packet community, such as a node or gateway? Does your beacon announce a service or bolster

Yellow Thunder Amateur Radio Club

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Raymond J. Matlosz, N9MLZ, Secretary

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The full minutes of the YTARC meeting were not available at printing deadline. The following is a summary of the February meeting.

The meeting of Wednesday, February 17, 1993 was opened at 7:31 p.m. by Bob Sauvan, WT9Q. The business portion of the meeting was closed at 7:43 p.m.

Following the meeting was an open house introducing guests and prospective members of the upcoming Codeless Technician Classes.

The classes will be held on Tuesdays and Thursdays at 7:00 p.m. at the Baraboo Civic Center. The first meeting was held on Thursday, February 25, 1993, but late registrations are welcomed.

The program for the Thursday, March 18, 1993 meeting will be presented by Dave Mullenix, N9LTD. He will present a program on Amateur Radio Satellites. An Oscar 21 ground station will be on display.

The following item of possible interest to YTARC members is taken from the Baraboo News Republic.

your ego? The first week, try setting your beacon for every hour. The next week, every two hours. The third week, every three hours. Here's a novel concept; rather than "fishing" for contacts with an annoying beacon, try contacting the stations you see on your monitor or in your "heard" list. Calling the stations you see on the air is a nicer way to make contacts than forcing your beacon on everyone, and you will make more contacts that way. Once you get on the air the HID feature in your TNC will "beacon" once, ten minutes after the contact so don't worry, everyone will still know you are out there even if you shut off your beacon.

(The names and callsigns have been changed to disguise location and license class)

73, JAY WB6AAM @ K6VE.#SOCA.CA.USA.NA

THE TEST POINT (continued from page 4)

DUBUQUE, IOWA - ARRL/VEC

Amateur examinations will be held on March 6, June 12, Aug. 21 and Nov. 20 in 1993.

Great River Amateur Radio Club VEs are now field stocked, which means retests can be given immediately.

Exams are held at 9:00 am at the Central Fire Station, 9th and Central in Dubuque. Use the basement entrance on 9th street. For more info, contact Mike Jozefowicz, NSOU, 2735 Hickory Hill, Dubuque, IA 52001. Or call Mike at 319-582-8563. Talk-ins are on the 147.84/24, 147.63/03 and 146.295/895 repeaters.

Arthur A. Evans, KA9KLZ
213 N Jefferson St.
Cuba City, WI 53807-1558
608-744-2704

APPLETON, WI - ARRL/VEC
MANITOWOC, WI (HAMFEST)
KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team.
Contact: Larry Siebers, (414) 788-3823

MENOMONIE, WI

The Northern Wisconsin RC will be sponsoring exams from 9:00 to 11:30 a.m. at the UW Stout Communication Center, 820 South Broadway, Menomonie, WI. Use the north entrance. Walk-ins only. Contact Jim Ley, NX9F. Work: (715) 232-1397, Home: (715) 235-3998.

RIVER FALLS, WI

Contact: Chuck Kelly, KA9YRV, (715) 425-2428.

SEVERE WEATHER TRAINING OFFERED.

It is hard to think of severe thunderstorms and tornadoes when the weather is cold and the ground is covered with snow. However, in a short time spring will arrive. As a service to the public to assist in identifying potentially dangerous weather situations, Sauk County Emergency Government is sponsoring a Severe Weather Safety Program put on by Eugene Przekurat of the National Weather Service Office at the following times and locations.

Severe Weather Safety — Thursday, March 4 at 7:30 p.m. Fire Department, 321 Madison St., Sauk City, WI.

Severe Weather Safety — Thursday, March 11 at 7:30 p.m. Multi-Purpose Room, Courthouse, Baraboo, WI.


Severe Weather Safety — Thursday, March 18 at 7:30 p.m. Fire Department, 131 S. Park St., Reedsburg, WI.

Severe Weather Safety — Thursday, March 25 at 7:30 p.m. Fire Department, 495 W. Madison St., Spring Green, WI.

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (Great Lakes ARC VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Paul K. Dean, WB9HCZ, (815) 987-6754.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.



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414-788-3823

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